

## Advanced power supplies

### SITOP PSU8200

#### Introduction

#### Overview



#### *The technology power supply for demanding solutions*

The single-phase, two-phase and three-phase SITOP PSU8200/PSU200M are the technology power supplies for challenging solutions. They offer maximum functionality for use in complex plants and machines. The wide-range input allows a connection to almost any electricity supply network worldwide and ensures a high degree of safety even if there are large voltage fluctuations. They offer outstanding overload characteristics: Power boost delivers up to three-times the rated current for short periods of time, and with extra power of 150%, loads with high power consumption can be connected without any problems. And in the event of an overload, you can choose between constant current or automatic restart. The extremely high efficiency keeps energy consumption and heat buildup in the control cabinet low, and the compact metal enclosure also saves space.

To further increase the 24 V availability, the power supplies can be combined with **buffer**, **DC UPS**, **redundancy** and **selectivity modules**.

#### *Product highlights of the product line*

- Extremely slim design – no lateral installation clearances required
- Power boost with 3 times rated current (for 25 ms) for tripping protective devices
- Extra power with 1.5 times rated current (5 s/min) for brief functional overload
- Choice of constant current characteristic or latching shutdown
- Symmetrical load distribution can be selected for parallel operation
- Operating state on 3 LEDs
- Extremely high efficiency up to 94%
- Wide temperature range from -25 to +70 °C

#### More information

Quick and easy selection of the appropriate power supply with the TIA Selection Tool:

<http://www.siemens.com/tst>

## Overview



The 1-phase SITOP PSU8200 are technology power supplies for challenging solutions. The version with wide-range input allows a connection to almost any electricity supply network worldwide and ensures a high degree of safety even if there are large voltage supply deviations.

To further increase the 24 V availability, the SITOP power supply units can be combined with **buffer**, **DC UPS**, **redundancy** and **selectivity modules**.

### Product highlights

- 1-phase, 24 V DC/ 5 A, 10 A, 20 A and 40 A
- Wide-range input, input voltage 85 ... 132 V AC, 170 ... 264 V AC or 88 ... 350 V DC
- Up to 94% efficiency
- cULus, cCSAus, ABS and DNV GL certifications

## Selection and ordering data

SITOP PSU8200 1-phase, 24 V DC/5 A	6EP3333-8SB00-0AY0
Stabilized power supply Input: 120/230 V AC Output: 24 V DC/5 A	
SITOP PSU8200 1-phase, 24 V DC/10 A	6EP3334-8SB00-0AY0
Stabilized power supply Input: 120/230 V AC Output: 24 V DC/10 A	
SITOP PSU8200 1-phase, 24 V DC/20 A	6EP1336-3BA10
Stabilized power supply Input: 120 ... 230 V AC/110 ... 220 V DC Output: 24 V DC/20 A	
SITOP PSU8200 1-phase, 24 V DC/40 A	6EP3337-8SB00-0AY0
Stabilized power supply Input: 120/230 V AC Output: 24 V DC/40 A	
SITOP PSU8200 Ex 1-phase, 24 V DC/40 A	6EP3337-8SC00-0AY0
Stabilized power supply Input: 120/230 V AC Output: 24 V DC/40 A	

## Accessories

SITOP redundancy modules	For more information, visit: <a href="http://www.siemens.com/sitop-redundancy/mall">www.siemens.com/sitop-redundancy/mall</a>
SITOP selectivity modules	For more information, visit: <a href="http://www.siemens.com/sitop-selectivity/mall">www.siemens.com/sitop-selectivity/mall</a>
SITOP buffer modules	For more information, visit: <a href="http://www.siemens.com/sitop-buffering/mall">www.siemens.com/sitop-buffering/mall</a>
Device identification label	3RT2900-1SB20

## Advanced power supplies

## SITOP PSU8200

## 1-phase, 24 V DC

## Technical specifications

Article number	6EP3333-8SB00-0A-Y0	6EP3334-8SB00-0A-Y0	6EP1336-3BA10	6EP3337-8SB00-0A-Y0	6EP3337-8SC00-0A-Y0
product brand name	SITOP PSU8200	SITOP PSU8200	SITOP PSU8200	SITOP PSU8200	SITOP PSU8200 EX
type of current supply	24 V/5 A	24 V/10 A	24 V/20 A	24 V/40 A	24 V/40 A
<b>input</b>					
type of the power supply network	1-phase AC	1-phase AC	1-phase and 2-phase AC or DC	1-phase and 2-phase AC	1-phase and 2-phase AC
supply voltage at AC					
• minimum rated value			120 V		
• maximum rated value			230 V		
• initial value			85 V		
• full-scale value			275 V		
supply voltage at AC	Automatic range selection	Automatic range selection	temperature derating necessary at $U_{in} < 100$ V AC or DC at 50 °C; additional derating at $U_{in} < 100$ V: $U_{in} = 95$ V Pa max = 460 W, $U_{in} = 90$ V Pa max = 440 W, $U_{in} = 85$ V Pa max = 420 W	Automatic selection; startup starting from $U_e \geq 90/180$ V	Automatic selection; startup starting from $U_e \geq 90/180$ V
supply voltage	120 V/230 V	120 V/230 V		120 V/230 V	120 V/230 V
input voltage 1 at AC	85 ... 132 V	85 ... 132 V		85 ... 132 V	85 ... 132 V
input voltage 2 at AC	170 ... 264 V	170 ... 264 V		170 ... 264 V	170 ... 264 V
supply voltage at DC			110 ... 220 V		
input voltage at DC			88 ... 350 V		
wide range input	No	No	Yes	No	No
buffering time for rated value of the output current in the event of power failure minimum	35 ms	35 ms	20 ms	25 ms	25 ms
operating condition of the mains buffering	at $V_{in} = 120/230$ V	at $V_{in} = 120/230$ V	at $V_{in} = 230$ V	at $V_{in} = 230$ V	at $V_{in} = 230$ V
line frequency	50 Hz/60 Hz	50 Hz/60 Hz	50 Hz/60 Hz	50 Hz/60 Hz	50 Hz/60 Hz
line frequency	47 ... 63 Hz	47 ... 63 Hz	47 ... 63 Hz	45 ... 65 Hz	45 ... 65 Hz
input current					
• at rated input voltage 120 V	2.1 A	4 A	4.6 A	15 A	15 A
• at rated input voltage 230 V	1.2 A	1.9 A	2.5 A	9 A	9 A
current limitation of inrush current at 25 °C maximum	10 A	10 A	20 A	50 A	50 A
I <sup>2</sup> t value maximum	0.2 A <sup>2</sup> ·s	0.3 A <sup>2</sup> ·s	5 A <sup>2</sup> ·s	8 A <sup>2</sup> ·s	8 A <sup>2</sup> ·s
fuse protection type	T 3.15 A (not accessible)	T 6.3 A (not accessible)	Yes	Yes	Yes
fuse protection type in the feeder	Recommended miniature circuit breaker at 1-phase operation: from 6 A (10 A) characteristic C (B); required at 2-phase operation: circuit breaker 2-pole connected or circuit breaker 3RV2011-1EA10 (setting 3.8 A) or 3RV2711-1ED10 (UL 489) at 230 V; 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) at 400/500 V	Recommended miniature circuit breaker at 1-phase operation: from 6 A (10 A) characteristic C (B); required at 2-phase operation: circuit breaker 2-pole connected or circuit breaker 3RV2011-1EA10 (setting 3.8 A) or 3RV2711-1ED10 (UL 489) at 230 V; 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) at 400/500 V	Recommended miniature circuit breaker at 1-phase operation: 10 A characteristic C; required at 2-phase operation: circuit breaker 2-pole connected or circuit breaker 3RV2711-1HD10 (UL 489) at 120 V or 3RV2711-1ED10 (UL 489) at 230 V	Recommended miniature circuit breaker at 1-phase operation: 16 A characteristic C; required at 2-phase operation: circuit breaker 2-pole connected or circuit breaker 3RV2421-4BA10 (120 V) or 3RV2411-1JA10 (230 V)	Recommended miniature circuit breaker at 1-phase operation: 16 A characteristic C; required at 2-phase operation: circuit breaker 2-pole connected or circuit breaker 3RV2421-4BA10 (120 V) or 3RV2411-1JA10 (230 V)
<b>output</b>					
voltage curve at output	Controlled, isolated DC voltage	Controlled, isolated DC voltage	Controlled, isolated DC voltage	Controlled, isolated DC voltage	Controlled, isolated DC voltage
output voltage at DC rated value	24 V	24 V	24 V	24 V	24 V
output voltage					
• at output 1 at DC rated value	24 V	24 V	24 V	24 V	24 V
	24 V	24 V	24 V	24 V	24 V

## Technical specifications (continued)

Article number	6EP3333-8SB00-0A-Y0	6EP3334-8SB00-0A-Y0	6EP1336-3BA10	6EP3337-8SB00-0A-Y0	6EP3337-8SC00-0A-Y0
product brand name	SITOP PSU8200	SITOP PSU8200	SITOP PSU8200	SITOP PSU8200	SITOP PSU8200 EX
type of current supply	24 V/5 A	24 V/10 A	24 V/20 A	24 V/40 A	24 V/40 A
output voltage adjustable	Yes; via potentiometer	Yes; via potentiometer	Yes; via potentiometer	Yes; via potentiometer	Yes; via potentiometer
adjustable output voltage	24 ... 28.8 V; max. 120 W	24 ... 28.8 V; max. 240 W	24 ... 28 V	24 ... 28 V; max. 960 W	24 ... 28 V; max. 960 W
relative control precision of the output voltage					
• on slow fluctuation of input voltage	0.1 %	0.1 %	0.1 %	0.1 %	0.1 %
• on slow fluctuation of ohm loading	0.2 %	0.3 %	0.3 %	0.1 %	0.1 %
residual ripple					
• maximum	50 mV	50 mV	100 mV	100 mV	100 mV
• typical			80 mV	50 mV	50 mV
voltage peak					
• maximum	200 mV	200 mV	200 mV	240 mV	240 mV
• typical			100 mV	220 mV	220 mV
display version for normal operation	Green LED for 24 V OK	Green LED for 24 V OK	Green LED for 24 V OK	Green LED for 24 V OK; LED yellow for overload; LED red for short-circuit or latching shutdown	Green LED for 24 V OK; LED yellow for overload; LED red for short-circuit or latching shutdown
type of signal at output	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"
behavior of the output voltage when switching on	Overshoot of Vout approx. 3 %	Overshoot of Vout approx. 3 %	No overshoot of Vout (soft start)	Overshoot of Vout approx. 3 %	Overshoot of Vout approx. 3 %
response delay maximum	1.5 s	1.5 s	1.5 s	1.5 s	1.5 s
voltage increase time of the output voltage					
• typical	30 ms	70 ms	250 ms	30 ms	30 ms
output current					
• rated value	5 A	10 A	20 A	40 A	40 A
• rated range	0 ... 5 A; As of Ua>24 V: 4% [Ia]/V [Ua]; at Ue<100 V/<200 V: 80% Ia rated	0 ... 10 A; +60 ... +70 °C: Derating 2%/K; as of Ua>24 V: 4% [Ia]/V [Ua]; at Ue<100 V/<200 V: 80% Ia rated	0 ... 20 A; +60 ... +70 °C: Derating 3%/K	0 ... 40 A; +60 ... +70 °C: Derating 3%/K	0 ... 40 A; +60 ... +70 °C: Derating 3%/K
supplied active power typical	5 A	10 A	20 A	40 A	40 A
short-term overload current	120 W	240 W	480 W	960 W	960 W
• on short-circuiting during the start-up typical				120 A	120 A
• at short-circuit during operation typical	15 A	30 A	60 A	120 A	120 A
duration of overloading capability for excess current					
• on short-circuiting during the start-up				25 ms	25 ms
• at short-circuit during operation	25 ms	25 ms	25 ms	25 ms	25 ms
constant overload current					
• on short-circuiting during the start-up typical	6 A	12 A	30 A	60 A	60 A
bridging of equipment	Yes; switchable characteristic	Yes; switchable characteristic	Yes; switchable characteristic	Yes; switchable characteristic	No
number of parallel-switched equipment resources	2	2	2	2	2
<b>efficiency</b>					
efficiency in percent	93 %	94 %	94 %	92 %	92 %
power loss [W]					

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## SITOP PSU8200

## 1-phase, 24 V DC

## Technical specifications (continued)

Article number	6EP3333-8SB00-0A-Y0	6EP3334-8SB00-0A-Y0	6EP1336-3BA10	6EP3337-8SB00-0A-Y0	6EP3337-8SC00-0A-Y0
product brand name	SITOP PSU8200	SITOP PSU8200	SITOP PSU8200	SITOP PSU8200	SITOP PSU8200 EX
type of current supply	24 V/5 A	24 V/10 A	24 V/20 A	24 V/40 A	24 V/40 A
• at rated output voltage for rated value of the output current typical	9 W	18 W	31 W	82 W	82 W
• during no-load operation maximum	1.5 W	1.5 W		6.8 W	6.8 W
<b>closed-loop control</b>					
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.1 %	0.1 %	0.5 %	1 %	1 %
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	2 %	4 %	1 %	1.9 %	1.9 %
setting time					
• load step 50 to 100% typical	0.25 ms	0.25 ms	1 ms	2 ms	2 ms
• load step 100 to 50% typical	0.5 ms	0.5 ms	1 ms	2 ms	2 ms
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	2 %	4 %		3.8 %	3.8 %
setting time					
• load step 10 to 90% typical	0.25 ms	0.25 ms		1 ms	1 ms
• load step 90 to 10% typical	0.5 ms	0.5 ms		1 ms	1 ms
• maximum	1 ms	1 ms	5 ms	1 ms	1 ms
<b>protection and monitoring</b>					
design of the overvoltage protection	< 33 V	< 33 V	< 31.8 V	< 32 V	< 32 V
property of the output short-circuit proof	Yes	Yes	Yes	Yes	Yes
design of short-circuit protection	Alternatively, constant current characteristic approx. 6 A or latching shutdown	Alternatively, constant current characteristic approx. 12 A or latching shutdown	Alternatively, constant current characteristic approx. 21.5 A or latching shutdown	Alternatively, constant current characteristic approx. 41 A or latching shutdown	Alternatively, constant current characteristic approx. 41 A or latching shutdown
• typical	6 A	12 A	21.5 A	41 A	41 A
overcurrent overload capability					
• in normal operation	overload capability 150 % I <sub>out</sub> rated up to 5 s/min	overload capability 150 % I <sub>out</sub> rated up to 5 s/min	overload capability 150 % I <sub>out</sub> rated up to 5 s/min	250% I <sub>out</sub> rated up to 25 ms, 150% I <sub>out</sub> rated up to 5 s/min	250% I <sub>out</sub> rated up to 25 ms, 150% I <sub>out</sub> rated up to 5 s/min
enduring short circuit current RMS value					
• typical	6 A	12 A	21.5 A	41 A	41 A
display version for overload and short circuit	LED yellow for "overload", LED red for "latching shutdown"	LED yellow for "overload", LED red for "latching shutdown"	LED yellow for "overload", LED red for "latching shutdown"	LED yellow for "overload", LED red for "latching shutdown" or "short-circuit"	LED yellow for "overload", LED red for "latching shutdown" or "short-circuit"
<b>safety</b>					
galvanic isolation between input and output	Yes	Yes	Yes	Yes	Yes
galvanic isolation	Safety extra-low output voltage U <sub>out</sub> acc. to EN 60950-1 and EN 50178	Safety extra-low output voltage U <sub>out</sub> acc. to EN 60950-1 and EN 50178	SELV (ES1) output voltage V <sub>out</sub> according to EN 61204-7, transformer according to EN 61558-2-16	Safety extra-low output voltage U <sub>out</sub> acc. to EN 60950-1 and EN 50178	Safety extra-low output voltage U <sub>out</sub> acc. to EN 60950-1 and EN 50178
operating resource protection class	Class I	Class I	Class I	Class I	Class I
leakage current					
• maximum	3.5 mA	3.5 mA	3.5 mA	0.1 mA	0.1 mA
• typical	1 mA	1 mA	1 mA	0.1 mA	0.1 mA
protection class IP standard	IP20	IP20	IP20	IP20	IP20

## Technical specifications (continued)

Article number	6EP3333-8SB00-0A-Y0	6EP3334-8SB00-0A-Y0	6EP1336-3BA10	6EP3337-8SB00-0A-Y0	6EP3337-8SC00-0A-Y0
product brand name	SITOP PSU8200	SITOP PSU8200	SITOP PSU8200	SITOP PSU8200	SITOP PSU8200 EX
type of current supply	24 V/5 A	24 V/10 A	24 V/20 A	24 V/40 A	24 V/40 A
• for emitted interference	EN 55022 Class B	EN 55022 Class B			
• for mains harmonics limitation	EN 61000-3-2	EN 61000-3-2	EN 61000-3-2	-	-
• for interference immunity	EN 61000-6-2	EN 61000-6-2	EN 61000-6-2	EN 61000-6-2	EN 61000-6-2
<b>standards, specifications, approvals</b>					
certificate of suitability					
• CE marking	Yes	Yes	Yes	Yes	Yes
• UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 62368-1, UL 62368-1)	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
• CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 62368-1, UL 62368-1)	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)	Yes; CSA C22.2 No. 62368-1
• UKCA marking			Yes		Yes
• EAC approval	Yes	Yes	Yes	Yes	Yes
• Regulatory Compliance Mark (RCM)	Yes	Yes	Yes	Yes	Yes
• NEC Class 2	No	No	No	No	No
• SEMI F47		Yes	Yes		
type of certification					
• BIS			Yes; R-41183539	Yes; R-41183539	Yes; R-41183539
• CB-certificate	Yes	Yes	Yes	Yes	Yes
MTBF at 40 °C	1 421 519 h	1 292 102 h	583 500 h	838 156 h	838 156 h
<b>standards, specifications, approvals hazardous environments</b>					
certificate of suitability					
• IECEx	No	No	No	No	Yes; IECEx Ex ec nC IIC T3 Gc
• ATEX	No	No	No	No	Yes; ATEX (EX) II 3G Ex ec nC IIC T3 Gc
• ULhazloc approval	No	No	No	No	Yes
• cCSAus, Class 1, Division 2	No	No	No	No	Yes
• FM registration	No	No	No	No	No
<b>standards, specifications, approvals marine classification</b>					
shipbuilding approval	Yes	Yes	Yes	Yes	No
Marine classification association					
• American Bureau of Shipping Europe Ltd. (ABS)	Yes	Yes	Yes	Yes	No
• French marine classification society (BV)	No	No	No	No	No
• Det Norske Veritas (DNV)	Yes	Yes	Yes	Yes	No; in preparation
• Lloyds Register of Shipping (LRS)	No	No	No	No	No
<b>standards, specifications, approvals Environmental Product Declaration</b>					
Environmental Product Declaration	Yes	Yes	Yes	Yes	Yes
Global Warming Potential [CO <sub>2</sub> eq]					

## Advanced power supplies

## SITOP PSU8200

## 1-phase, 24 V DC

## Technical specifications (continued)

Article number	6EP3333-8SB00-0A-Y0	6EP3334-8SB00-0A-Y0	6EP1336-3BA10	6EP3337-8SB00-0A-Y0	6EP3337-8SC00-0A-Y0
product brand name	SITOP PSU8200	SITOP PSU8200	SITOP PSU8200	SITOP PSU8200	SITOP PSU8200 EX
type of current supply	24 V/5 A	24 V/10 A	24 V/20 A	24 V/40 A	24 V/40 A
• total	294.6 kg	579.4 kg	989.5 kg	2 616.1 kg	2 616.1 kg
• during manufacturing	12.6 kg	15.8 kg	18.9 kg	48.8 kg	48.8 kg
• during operation	281.6 kg	563.2 kg	970 kg	2 565.8 kg	2 565.8 kg
• after end of life	0.18 kg	0.23 kg	0.27 kg	0.7 kg	0.7 kg
<b>ambient conditions</b>					
ambient temperature					
• during operation	-25 ... +70 °C; With natural convection; startup tested starting from -40 °C nominal voltage	-25 ... +70 °C; With natural convection; startup tested starting from -40 °C nominal voltage	-25 ... +70 °C; With natural convection; startup tested starting from -40 °C nominal voltage	-25 ... +70 °C; with natural convection	-25 ... +70 °C; with natural convection
• during transport	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C
• during storage	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation	Climate class 3K3, 5 ... 95% no condensation	Climate class 3K3, 5 ... 95% no condensation	Climate class 3K3, 5 ... 95% no condensation	Climate class 3K3, 5 ... 95% no condensation
<b>connection method</b>					
type of electrical connection	screw terminal	screw terminal	screw terminal	screw terminal	screw terminal
• at input	L, N, PE: 1 screw terminal each for 0.2 ... 2.5 mm <sup>2</sup> single-core/finely stranded	L, N, PE: 1 screw terminal each for 0.2 ... 2.5 mm <sup>2</sup> single-core/finely stranded	L, N, PE: 1 screw terminal each for 0.2 ... 4 mm <sup>2</sup> single-core/finely stranded	L, N, PE: 1 screw terminal each for 0.2 ... 4 mm <sup>2</sup> single-core/finely stranded	L, N, PE: 1 screw terminal each for 0.2 ... 4 mm <sup>2</sup> single-core/finely stranded
• at output	+, -: 2 screw terminals each for 0.2 ... 2.5 mm <sup>2</sup>	+, -: 2 screw terminals each for 0.2 ... 2.5 mm <sup>2</sup>	+, -: 2 screw terminals each for 0.2 ... 4 mm <sup>2</sup>	+, -: 2 screw terminals each for 0.5 ... 10 mm <sup>2</sup>	+, -: 2 screw terminals each for 0.5 ... 10 mm <sup>2</sup>
• for auxiliary contacts	13, 14 (alarm signal): 1 screw terminal each for 0.14 ... 1.5 mm <sup>2</sup> ; 15, 16 (Remote): 1 screw terminal each for 0.14 ... 1.5 mm <sup>2</sup>	13, 14 (alarm signal): 1 screw terminal each for 0.14 ... 1.5 mm <sup>2</sup> ; 15, 16 (Remote): 1 screw terminal each for 0.14 ... 1.5 mm <sup>2</sup>	13, 14 (alarm signal), 15, 16 (Remote ON OFF): 1 screw terminal each for 0.14 ... 1.5 mm <sup>2</sup>	13, 14 (alarm signal): 1 screw terminal each for 0.14 ... 1.5 mm <sup>2</sup>	13, 14 (alarm signal): 1 screw terminal each for 0.14 ... 1.5 mm <sup>2</sup>
<b>mechanical data</b>					
width × height × depth of the enclosure	45 mm × 125 mm	55 mm × 125 mm	90 mm × 125 mm	145 mm × 150 mm	145 mm × 150 mm
installation width × mounting height	45 mm	55 mm	90 mm	150 mm	150 mm
required spacing					
• top	50 mm	50 mm	50 mm	40 mm	40 mm
• bottom	50 mm	50 mm	50 mm	40 mm	40 mm
• left	0 mm	0 mm	0 mm	0 mm	0 mm
• right	0 mm	0 mm	0 mm	0 mm	0 mm
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15	Snaps onto DIN rail EN 60715 35x7.5/15	Snaps onto DIN rail EN 60715 35x7.5/15	Snaps onto DIN rail EN 60715 35x15	Snaps onto DIN rail EN 60715 35x15
• standard rail mounting	Yes	Yes	Yes	Yes	Yes
• S7 rail mounting	No	No	No	No	No
• wall mounting	No	No	No	No	No
housing can be lined up	Yes	Yes	Yes	Yes	Yes
net weight	0.8 kg	1 kg	1.2 kg	3.1 kg	3.1 kg
<b>accessories</b>					
electrical accessories	Buffer module	Buffer module	Buffer module	Buffer module, redundancy module	Buffer module, redundancy module
mechanical accessories	Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20	Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20	Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20	Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20	Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20
<b>further information internet links</b>					
internet link					
• to website: Industry Mall	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>

## Technical specifications (continued)

Article number	6EP3333-8SB00-0A-Y0	6EP3334-8SB00-0A-Y0	6EP1336-3BA10	6EP3337-8SB00-0A-Y0	6EP3337-8SC00-0A-Y0
product brand name	SITOP PSU8200	SITOP PSU8200	SITOP PSU8200	SITOP PSU8200	SITOP PSU8200 EX
type of current supply	24 V/5 A	24 V/10 A	24 V/20 A	24 V/40 A	24 V/40 A
<ul style="list-style-type: none"> <li>to web page: selection aid TIA Selection Tool</li> <li>to website: Industrial communication</li> <li>to website: CAx-Download-Manager</li> <li>to website: Industry Online Support</li> </ul>	<a href="https://siemens.com/tst">https://siemens.com/tst</a> <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a> <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a> <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>	<a href="https://siemens.com/tst">https://siemens.com/tst</a> <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a> <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a> <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>	<a href="https://siemens.com/tst">https://siemens.com/tst</a> <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a> <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a> <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>	<a href="https://siemens.com/tst">https://siemens.com/tst</a> <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a> <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a> <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>	<a href="https://siemens.com/tst">https://siemens.com/tst</a> <a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a> <a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a> <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
additional information					
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)
security information					
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit <a href="http://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a> . Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. 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For additional information on industrial cybersecurity measures that may be implemented, please visit <a href="http://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a> . Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product ver-	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. 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## Advanced power supplies

## SITOP PSU8200

## 1-phase, 24 V DC

## Technical specifications (continued)

Article number	6EP3333-8SB00-0A-Y0	6EP3334-8SB00-0A-Y0	6EP1336-3BA10	6EP3337-8SB00-0A-Y0	6EP3337-8SC00-0A-Y0
product brand name	SITOP PSU8200	SITOP PSU8200	SITOP PSU8200	SITOP PSU8200	SITOP PSU8200 EX
type of current supply	24 V/5 A	24 V/10 A	24 V/20 A	24 V/40 A	24 V/40 A
	product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a> . (V4.7)	sions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a> . (V4.7)	product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a> . (V4.7)	sions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a> . (V4.7)	product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a> . (V4.7)

## Overview



The 1- and 2-phase SITOP PSU200M are technology power supplies for challenging solutions. The ultra-wide-range input allows connection to almost any single-phase power supply system or directly between the line conductors of three-phase networks (2-phase) and ensures a high degree of safety even if there are large voltage fluctuations.

To further increase the 24 V availability, the SITOP power supplies can be combined with **buffer**, **DC UPS**, **redundancy** and **selectivity modules**.

### Product highlights

- 1- and 2-phase, 24 V DC/5 A and 10 A
- Ultra-wide input range, input voltage 85 ... 264 V AC, 176 ... 550 V 2AC
- Optionally with PCB with protective coating
- Up to 91% efficiency
- cULus, cCSAus, ABS and DNV GL certifications

## Selection and ordering data

SITOP PSU200M 1 and 2-phase, 24 V DC/5 A Stabilized power supply Input: 120 ... 230/230 ... 500 V AC Output: 24 V DC/5 A	6EP1333-3BA10
SITOP PSU200M 1 and 2-phase, 24 V DC/5 A Stabilized power supply Input: 120 ... 230/230 ... 500 V AC Output: 24 V DC/5 A Version with protective coating	6EP1333-3BA10-8AC0
SITOP PSU200M 1 and 2-phase, 24 V DC/10 A Stabilized power supply Input: 120 ... 230 V/230 ... 500 V AC Output: 24 V DC/10 A	6EP1334-3BA10
SITOP PSU200M 1 and 2-phase, 24 V DC/10 A Stabilized power supply Input: 120 ... 230 V/230 ... 500 V AC Output: 24 V DC/10 A version with protective coating	6EP1334-3BA10-8AB0

## Accessories

SITOP redundancy modules	For more information, visit: <a href="http://www.siemens.com/sitop-redundancy/mall">www.siemens.com/sitop-redundancy/mall</a>
SITOP selectivity modules	For more information, visit: <a href="http://www.siemens.com/sitop-selectivity/mall">www.siemens.com/sitop-selectivity/mall</a>
SITOP buffer modules	For more information, visit: <a href="http://www.siemens.com/sitop-buffering/mall">www.siemens.com/sitop-buffering/mall</a>
Device identification label	3RT2900-1SB20

## Advanced power supplies

SITOP PSU8200

1- and 2-phase, 24 V DC

## Technical specifications

Article number	6EP1333-3BA10	6EP1333-3BA10-8AC0	6EP1334-3BA10	6EP1334-3BA10-8AB0
product brand name	SITOP PSU200M	SITOP PSU200M	SITOP PSU200M	SITOP PSU200M
type of current supply	24 V/5 A	24 V/5 A	24 V/10 A	24 V/10 A
<b>input</b>				
type of the power supply network	1-phase and 2-phase AC			
supply voltage at AC	Set by means of selector switch on the device; starting from $V_{in} > 90/180$ V	Set by means of selector switch on the device; starting from $V_{in} > 90/180$ V	Set by means of selector switch on the device	Set by means of selector switch on the device
supply voltage 1 at AC	120 ... 230 V			
supply voltage 2 at AC	230 ... 500 V			
input voltage 1 at AC	85 ... 264 V			
input voltage 2 at AC	176 ... 550 V			
wide range input	Yes	Yes	Yes	Yes
overvoltage overload capability	1300 V <sub>peak</sub> , 1.3 ms			
buffering time for rated value of the output current in the event of power failure minimum	25 ms	25 ms	25 ms	25 ms
operating condition of the mains buffering	at $V_{in} = 120/230$ V, typ. 150 ms at $V_{in} = 400$ V	at $V_{in} = 120/230$ V, typ. 150 ms at $V_{in} = 400$ V	at $V_{in} = 120/230$ V, typ. 150 ms at $V_{in} = 400$ V	at $V_{in} = 120/230$ V, typ. 150 ms at $V_{in} = 400$ V
line frequency	50 Hz/60 Hz	50 Hz/60 Hz	50 Hz/60 Hz	50 Hz/60 Hz
line frequency	47 ... 63 Hz			
input current				
• at rated input voltage 120 V	2.2 A	2.2 A	4.4 A	4.4 A
• at rated input voltage 230 V	1.2 A	1.2 A	2.4 A	2.4 A
• at rated input voltage 500 V	0.61 A	0.61 A	1.1 A	1.1 A
current limitation of inrush current at 25 °C maximum	35 A	35 A	35 A	35 A
I <sup>2</sup> t value maximum	1.7 A <sup>2</sup> ·s	1.7 A <sup>2</sup> ·s	4 A <sup>2</sup> ·s	4 A <sup>2</sup> ·s
fuse protection type	T 3.15 A (not accessible)	T 3.15 A (not accessible)	T 6.3 A (not accessible)	T 6.3 A (not accessible)
fuse protection type in the feeder	Recommended miniature circuit breaker at 1-phase operation: from 6 A (10 A) characteristic C (B); required at 2-phase operation: circuit breaker 2-pole connected or circuit breaker 3RV2011-1EA10 (setting 3.8 A) or 3RV2711-1ED10 (UL 489) at 230 V; 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) at 400/500 V	Recommended miniature circuit breaker at 1-phase operation: from 6 A (10 A) characteristic C (B); required at 2-phase operation: circuit breaker 2-pole connected or circuit breaker 3RV2011-1EA10 (setting 3.8 A) or 3RV2711-1ED10 (UL 489) at 230 V; 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) at 400/500 V	Recommended miniature circuit breaker at 1-phase operation: from 6 A (10 A) characteristic C (B); required at 2-phase operation: circuit breaker 2-pole connected or circuit breaker 3RV2011-1EA10 (setting 3.8 A) or 3RV2711-1ED10 (UL 489) at 230 V; 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) at 400/500 V	Recommended miniature circuit breaker at 1-phase operation: from 6 A (10 A) characteristic C (B); required at 2-phase operation: circuit breaker 2-pole connected or circuit breaker 3RV2011-1EA10 (setting 3.8 A) or 3RV2711-1ED10 (UL 489) at 230 V; 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) at 400/500 V
<b>output</b>				
voltage curve at output	Controlled, isolated DC voltage			
output voltage at DC rated value	24 V	24 V	24 V	24 V
output voltage				
• at output 1 at DC rated value	24 V	24 V	24 V	24 V
	24 V	24 V	24 V	24 V
output voltage adjustable	Yes; via potentiometer	Yes; via potentiometer	Yes; via potentiometer	Yes; via potentiometer
adjustable output voltage	24 ... 28.8 V			
relative control precision of the output voltage				
• on slow fluctuation of input voltage	0.1 %	0.1 %	0.1 %	0.1 %
• on slow fluctuation of ohm loading	0.1 %	0.1 %	0.1 %	0.1 %
residual ripple				
• maximum	50 mV	50 mV	50 mV	50 mV
voltage peak				
• maximum	200 mV	200 mV	200 mV	200 mV

## Technical specifications (continued)

Article number	6EP1333-3BA10	6EP1333-3BA10-8AC0	6EP1334-3BA10	6EP1334-3BA10-8AB0
product brand name	SITOP PSU200M	SITOP PSU200M	SITOP PSU200M	SITOP PSU200M
type of current supply	24 V/5 A	24 V/5 A	24 V/10 A	24 V/10 A
display version for normal operation	Green LED for 24 V OK	Green LED for 24 V OK	Green LED for 24 V OK	Green LED for 24 V OK
type of signal at output	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"
behavior of the output voltage when switching on	Overshoot of Vout approx. 3 %	Overshoot of Vout approx. 3 %	Overshoot of Vout approx. 3 %	Overshoot of Vout approx. 3 %
response delay maximum	1 s	1 s	1 s	1 s
voltage increase time of the output voltage				
• typical	50 ms	50 ms	50 ms	50 ms
output current				
• rated value	5 A	5 A	10 A	10 A
• rated range	0 ... 5 A	0 ... 5 A	0 ... 10 A; +60 ... +70 °C: Derating 2%/K (at 120 V, 230 V) or 3.5%/K (at 400 V)	0 ... 10 A; +60 ... +70 °C: Derating 2%/K (at 120 V, 230 V) or 3.5%/K (at 400 V)
supplied active power typical	5 A	5 A	10 A	10 A
short-term overload current	120 W	120 W	240 W	240 W
• at short-circuit during operation typical	15 A	15 A	30 A	30 A
duration of overloading capability for excess current				
• at short-circuit during operation	25 ms	25 ms	25 ms	25 ms
constant overload current				
• on short-circuiting during the start-up typical	6 A	6 A	12 A	12 A
bridging of equipment	Yes; switchable characteristic	Yes; switchable characteristic	Yes; switchable characteristic	Yes; switchable characteristic
number of parallel-switched equipment resources	2	2	2	2
<b>efficiency</b>				
efficiency in percent	88 %	88 %	91 %	91 %
power loss [W]				
• at rated output voltage for rated value of the output current typical	17 W	17 W	24 W	24 W
• during no-load operation maximum	4 W	4 W	6 W	6 W
<b>closed-loop control</b>				
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.1 %	0.1 %	0.1 %	0.1 %
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	3 %	3 %	3 %	3 %
setting time				
• load step 50 to 100% typical	2 ms	2 ms	2 ms	2 ms
• load step 100 to 50% typical	2 ms	2 ms	2 ms	2 ms
setting time				
• maximum	5 ms	5 ms	5 ms	5 ms
<b>protection and monitoring</b>				
design of the overvoltage protection	< 35 V	< 35 V	< 35 V	< 35 V
property of the output short-circuit proof	Yes	Yes	Yes	Yes
design of short-circuit protection	Alternatively, constant current characteristic approx. 5.5 A or latching shutdown	Alternatively, constant current characteristic approx. 5.5 A or latching shutdown	Alternatively, constant current characteristic approx. 12 A or latching shutdown	Alternatively, constant current characteristic approx. 12 A or latching shutdown
• typical	6 A	6 A	12 A	12 A
enduring short circuit current RMS value				

## Advanced power supplies

## SITOP PSU8200

## 1- and 2-phase, 24 V DC

## Technical specifications (continued)

Article number	6EP1333-3BA10	6EP1333-3BA10-8AC0	6EP1334-3BA10	6EP1334-3BA10-8AB0
product brand name	SITOP PSU200M	SITOP PSU200M	SITOP PSU200M	SITOP PSU200M
type of current supply	24 V/5 A	24 V/5 A	24 V/10 A	24 V/10 A
• typical	6 A	6 A	12 A	12 A
display version for overload and short circuit	LED yellow for "overload", LED red for "latching shut-down"	LED yellow for "overload", LED red for "latching shut-down"	LED yellow for "overload", LED red for "latching shut-down"	LED yellow for "overload", LED red for "latching shut-down"
<b>safety</b>				
galvanic isolation between input and output	Yes	Yes	Yes	Yes
galvanic isolation	Safety extra-low output voltage U <sub>out</sub> acc. to EN 60950-1 and EN 50178	Safety extra-low output voltage U <sub>out</sub> acc. to EN 60950-1 and EN 50178	Safety extra-low output voltage U <sub>out</sub> acc. to EN 60950-1 and EN 50178	Safety extra-low output voltage U <sub>out</sub> acc. to EN 60950-1 and EN 50178
operating resource protection class	Class I	Class I	Class I	Class I
leakage current				
• maximum	3.5 mA	3.5 mA	3.5 mA	3.5 mA
• typical	0.25 mA	0.25 mA	0.32 mA	0.32 mA
protection class IP	IP20	IP20	IP20	IP20
standard				
• for emitted interference	EN 55022 Class B	EN 55022 Class B	EN 55022 Class B	EN 55022 Class B
• for mains harmonics limitation	EN 61000-3-2	EN 61000-3-2	EN 61000-3-2	EN 61000-3-2
• for interference immunity	EN 61000-6-2	EN 61000-6-2	EN 61000-6-2	EN 61000-6-2
<b>standards, specifications, approvals</b>				
certificate of suitability				
• CE marking	Yes	Yes	Yes	Yes
• UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
• CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
• EAC approval	Yes	Yes	Yes	Yes
• Regulatory Compliance Mark (RCM)	Yes	Yes	Yes	Yes
• NEC Class 2	No	No	No	No
• SEMI F47	Yes		Yes	
type of certification				
• BIS	Yes; R-41183539, R-41188271			
• CB-certificate	Yes	No	Yes	No
MTBF at 40 °C	1 123 973 h	1 123 973 h	1 055 408 h	1 055 408 h
<b>standards, specifications, approvals hazardous environments</b>				
certificate of suitability				
• IECEx	No	No	No	No
• ATEX	No	No	No	No
• ULhazloc approval	No	No	No	No
• cCSAus, Class 1, Division 2	No	No	No	No
• FM registration	No	No	No	No
<b>standards, specifications, approvals marine classification</b>				
shipbuilding approval	Yes	Yes	Yes	Yes
Marine classification association				

## Technical specifications (continued)

Article number	6EP1333-3BA10	6EP1333-3BA10-8AC0	6EP1334-3BA10	6EP1334-3BA10-8AB0
product brand name	SITOP PSU200M	SITOP PSU200M	SITOP PSU200M	SITOP PSU200M
type of current supply	24 V/5 A	24 V/5 A	24 V/10 A	24 V/10 A
• American Bureau of Shipping Europe Ltd. (ABS)	Yes	Yes	Yes	Yes
• French marine classification society (BV)	No	No	No	No
• Det Norske Veritas (DNV)	Yes	Yes	Yes	Yes
• Lloyds Register of Shipping (LRS)	No	No	No	No
<b>standards, specifications, approvals</b>				
<b>Environmental Product Declaration</b>				
Environmental Product Declaration	Yes	Yes	Yes	Yes
Global Warming Potential [CO <sub>2</sub> eq]				
• total	541.7 kg	541.7 kg	763.9 kg	763.9 kg
• during manufacturing	9.5 kg	9.5 kg	12.6 kg	12.6 kg
• during operation	531.9 kg	531.9 kg	751 kg	751 kg
• after end of life	0.14 kg	0.14 kg	0.18 kg	0.18 kg
<b>ambient conditions</b>				
ambient temperature				
• during operation	-25 ... +70 °C; With natural convection; startup tested starting from -40 °C nominal voltage	-25 ... +70 °C; with natural convection	-25 ... +70 °C; With natural convection; startup tested starting from -40 °C nominal voltage	-25 ... +70 °C; with natural convection
• during transport	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C
• during storage	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C	-40 ... +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation	Climate class 3K3, 5 ... 95% no condensation	Climate class 3K3, 5 ... 95% no condensation	Climate class 3K3, 5 ... 95% no condensation
<b>connection method</b>				
type of electrical connection	screw terminal	screw terminal	screw terminal	screw terminal
• at input	L, N, PE: 1 screw terminal each for 0.2 ... 2.5 mm <sup>2</sup> single-core/finely stranded	L, N, PE: 1 screw terminal each for 0.2 ... 2.5 mm <sup>2</sup> single-core/finely stranded	L, N, PE: 1 screw terminal each for 0.2 ... 2.5 mm <sup>2</sup> single-core/finely stranded	L, N, PE: 1 screw terminal each for 0.2 ... 2.5 mm <sup>2</sup> single-core/finely stranded
• at output	+, -: 2 screw terminals each for 0.2 ... 2.5 mm <sup>2</sup>	+, -: 2 screw terminals each for 0.2 ... 2.5 mm <sup>2</sup>	+, -: 2 screw terminals each for 0.2 ... 2.5 mm <sup>2</sup>	+, -: 2 screw terminals each for 0.2 ... 2.5 mm <sup>2</sup>
• for auxiliary contacts	13, 14 (alarm signal): 1 screw terminal each for 0.14 ... 1.5 mm <sup>2</sup>	13, 14 (alarm signal): 1 screw terminal each for 0.14 ... 1.5 mm <sup>2</sup>	13, 14 (alarm signal): 1 screw terminal each for 0.14 ... 1.5 mm <sup>2</sup>	13, 14 (alarm signal): 1 screw terminal each for 0.14 ... 1.5 mm <sup>2</sup>
<b>mechanical data</b>				
width × height × depth of the enclosure	70 mm × 121 mm	70 mm × 121 mm	70 mm × 121 mm	70 mm × 121 mm
installation width × mounting height	70 mm	70 mm	70 mm	70 mm
required spacing				
• top	50 mm	50 mm	50 mm	50 mm
• bottom	50 mm	50 mm	50 mm	50 mm
• left	0 mm	0 mm	0 mm	0 mm
• right	0 mm	0 mm	0 mm	0 mm
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15	Snaps onto DIN rail EN 60715 35x7.5/15	Snaps onto DIN rail EN 60715 35x7.5/15	Snaps onto DIN rail EN 60715 35x7.5/15
• standard rail mounting	Yes	Yes	Yes	Yes
• S7 rail mounting	No	No	No	No
• wall mounting	No	No	No	No
housing can be lined up	Yes	Yes	Yes	Yes
net weight	0.6 kg	0.6 kg	0.8 kg	0.8 kg
<b>accessories</b>				
electrical accessories	Buffer module	Buffer module	Buffer module	Buffer module
<b>further information internet links</b>				
internet link				
• to website: Industry Mall	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>

## Advanced power supplies

## SITOP PSU8200

## 1- and 2-phase, 24 V DC

## Technical specifications (continued)

Article number	6EP1333-3BA10	6EP1333-3BA10-8AC0	6EP1334-3BA10	6EP1334-3BA10-8AB0
product brand name	SITOP PSU200M	SITOP PSU200M	SITOP PSU200M	SITOP PSU200M
type of current supply	24 V/5 A	24 V/5 A	24 V/10 A	24 V/10 A
• to web page: selection aid TIA Selection Tool	<a href="https://siemens.com/tst">https://siemens.com/tst</a>	<a href="https://siemens.com/tst">https://siemens.com/tst</a>	<a href="https://siemens.com/tst">https://siemens.com/tst</a>	<a href="https://siemens.com/tst">https://siemens.com/tst</a>
• to website: Industrial communication	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>
• to website: CAx-Download-Manager	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>additional information</b>				
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)
<b>security information</b>				
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit <a href="http://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a> . Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a> . (V4.7)	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. 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## Overview



The 3-phase SITOP PSU8200 are technology power supplies for challenging solutions. The wide-range input allows a connection to almost any electricity supply network worldwide and ensures a high degree of safety even if there are large voltage fluctuations.

To further increase the 24 V availability, the SITOP power supplies can be combined with **buffer**, **DC UPS**, **redundancy** and **selectivity modules**.

### Product highlights

- 3-phase, 24 V DC/ 20 A and 40 A
- Wide-range input, input voltage 320 ... 575 V AC
- Up to 94% efficiency
- cULus, cCSAus, ABS and DNV GL certifications

## Selection and ordering data

SITOP PSU8200 3-phase, 24 V DC/20 A Stabilized power supply Input: 400 ... 500 V 3 AC Output: 24 V DC/20 A	6EP3436-8SB00-0AY0
SITOP PSU8200 3-phase, 24 V DC/40 A Stabilized power supply Input: 400 ... 500 V 3 AC Output: 24 V DC/20 A	6EP3437-8SB00-0AY0

## Accessories

SITOP redundancy modules	For more information, visit: <a href="http://www.siemens.com/sitop-redundancy/mall">www.siemens.com/sitop-redundancy/mall</a>
SITOP selectivity modules	For more information, visit: <a href="http://www.siemens.com/sitop-selectivity/mall">www.siemens.com/sitop-selectivity/mall</a>
SITOP buffer modules	For more information, visit: <a href="http://www.siemens.com/sitop-buffering/mall">www.siemens.com/sitop-buffering/mall</a>
Device identification label	3RT2900-1SB20

## Advanced power supplies

## SITOP PSU8200

## 3-phase, 24 V DC

## Technical specifications

Article number	6EP3436-8SB00-0AY0	6EP3437-8SB00-0AY0
product brand name	SITOP PSU8200	SITOP PSU8200
type of current supply	24 V/20 A	24 V/40 A
<b>input</b>		
type of the power supply network	3-phase AC	3-phase AC
supply voltage at AC		
• minimum rated value	400 V	400 V
• maximum rated value	500 V	500 V
• initial value	320 V	320 V
• full-scale value	575 V	575 V
wide range input	Yes	Yes
buffering time for rated value of the output current in the event of power failure minimum	15 ms	10 ms
operating condition of the mains buffering	at $V_{in} = 400\text{ V}$	at $V_{in} = 400\text{ V}$
line frequency	50 Hz/60 Hz	50 Hz/60 Hz
line frequency	47 ... 63 Hz	45 ... 65 Hz
input current		
• at rated input voltage 400 V	1.2 A	2.1 A
• at rated input voltage 500 V	1 A	1.7 A
current limitation of inrush current at 25 °C maximum	16 A	13 A
I <sub>2t</sub> value maximum	0.8 A <sup>2</sup> ·s	2.24 A <sup>2</sup> ·s
fuse protection type	none	none
fuse protection type in the feeder	Required: 3-pole connected miniature circuit breaker 6 ... 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489)	Required: 3-pole connected miniature circuit breaker 10 ... 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489)
<b>output</b>		
voltage curve at output	Controlled, isolated DC voltage	Controlled, isolated DC voltage
output voltage at DC rated value	24 V	24 V
output voltage		
• at output 1 at DC rated value	24 V	24 V
	24 V	24 V
output voltage adjustable	Yes; via potentiometer	Yes; via potentiometer
adjustable output voltage	24 ... 28 V; max. 480 W	24 ... 28 V; max. 960 W
relative control precision of the output voltage		
• on slow fluctuation of input voltage	0.1 %	0.1 %
• on slow fluctuation of ohm loading	0.2 %	0.2 %
residual ripple		
• maximum	100 mV	100 mV
voltage peak		
• maximum	200 mV	240 mV
display version for normal operation	Green LED for 24 V OK	Green LED for 24 V OK
type of signal at output	Relay contact (NO contact, rating 60 V DC/0.3 A) for "24 V OK"	Relay contact (NO contact, rating 60 V DC/0.3 A) for "24 V OK"
behavior of the output voltage when switching on	No overshoot of $V_{out}$ (soft start)	minimal overshooting (< 2 %)
response delay maximum	2.5 s	0.1 s
voltage increase time of the output voltage		
• maximum	500 ms	100 ms
output current		
• rated value	20 A	40 A
• rated range	0 ... 20 A; +60 ... +70 °C: Derating 2%/K	0 ... 40 A; +60 ... +70 °C: Derating 4%/K
supplied active power typical	20 A	40 A
short-term overload current	480 W	960 W

## Technical specifications (continued)

Article number	6EP3436-8SB00-0AY0	6EP3437-8SB00-0AY0
product brand name	SITOP PSU8200	SITOP PSU8200
type of current supply	24 V/20 A	24 V/40 A
• at short-circuit during operation typical	60 A	120 A
duration of overloading capability for excess current		
• at short-circuit during operation	25 ms	25 ms
constant overload current		
• on short-circuiting during the start-up typical	22 A	44 A
bridging of equipment	Yes; switchable characteristic	Yes; switchable characteristic
number of parallel-switched equipment resources	2	2
<b>efficiency</b>		
efficiency in percent	94 %	94 %
power loss [W]		
• at rated output voltage for rated value of the output current typical	31 W	66 W
• during no-load operation maximum		4 W
<b>closed-loop control</b>		
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.1 %	1 %
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	1 %	3 %
setting time		
• load step 50 to 100% typical	0.2 ms	
• load step 100 to 50% typical	0.2 ms	
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	2 %	
setting time		
• load step 10 to 90% typical	0.2 ms	
• load step 90 to 10% typical	0.2 ms	
• maximum	10 ms	10 ms
<b>protection and monitoring</b>		
design of the overvoltage protection	< 32 V	< 31.8 V
property of the output short-circuit proof	Yes	Yes
design of short-circuit protection	Alternatively, constant current characteristic approx. 22 A or latching shutdown	Alternatively, constant current characteristic approx. 44 A or latching shutdown
• typical	22 A	44 A
overcurrent overload capability		
• in normal operation	overload capability 150 % I <sub>out</sub> rated up to 5 s/min	overload capability 150 % I <sub>out</sub> rated up to 5 s/min
enduring short circuit current RMS value		
• typical	22 A	50 A
display version for overload and short circuit	LED yellow for "overload", LED red for "latching shutdown"	LED yellow for "overload", LED red for "latching shutdown"
<b>safety</b>		
galvanic isolation between input and output	Yes	Yes
galvanic isolation	Safety extra low output voltage U <sub>out</sub> according to EN 60950-1	Safety extra-low output voltage U <sub>out</sub> acc. to EN 60950-1 and EN 50178
operating resource protection class	Class I	Class I
leakage current		
• maximum	3.5 mA	1 mA
• typical	0.9 mA	0.6 mA
protection class IP	IP20	IP20
standard		
• for emitted interference	EN 55022 Class B	EN 55022 Class B
• for mains harmonics limitation	EN 61000-3-2	EN 61000-3-2
• for interference immunity	EN 61000-6-2	EN 61000-6-2

## Advanced power supplies

## SITOP PSU8200

## 3-phase, 24 V DC

## Technical specifications (continued)

Article number	6EP3436-8SB00-0AY0	6EP3437-8SB00-0AY0
product brand name	SITOP PSU8200	SITOP PSU8200
type of current supply	24 V/20 A	24 V/40 A
<b>standards, specifications, approvals</b>		
certificate of suitability		
• CE marking	Yes	Yes
• UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
• CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
• EAC approval	Yes	Yes
• Regulatory Compliance Mark (RCM)	Yes	Yes
• NEC Class 2	No	No
• SEMI F47	Yes	Yes
type of certification		
• BIS	Yes; R-41188271	Yes; R-41183539
• CB-certificate	Yes	Yes
MTBF at 40 °C	590 573 h	517 015 h
<b>standards, specifications, approvals hazardous environments</b>		
certificate of suitability		
• IECEx	No	No
• ATEX	No	No
• ULhazloc approval	No	No
• cCSAus, Class 1, Division 2	No	No
• FM registration	No	No
<b>standards, specifications, approvals marine classification</b>		
shipbuilding approval	Yes	Yes
Marine classification association		
• American Bureau of Shipping Europe Ltd. (ABS)	Yes	Yes
• French marine classification society (BV)	No	No
• Det Norske Veritas (DNV)	Yes	Yes
• Lloyds Register of Shipping (LRS)	No	No
<b>standards, specifications, approvals Environmental Product Declaration</b>		
Environmental Product Declaration	Yes	Yes
Global Warming Potential [CO <sub>2</sub> eq]		
• total	989 kg	2 118.7 kg
• during manufacturing	18.9 kg	52 kg
• during operation	970 kg	2 065.2 kg
• after end of life	0.27 kg	0.74 kg
<b>ambient conditions</b>		
ambient temperature		
• during operation	-25 ... +70 °C; With natural convection; start-up tested starting from -40 °C nominal voltage	-25 ... +70 °C; With natural convection
• during transport	-40 ... +85 °C	-40 ... +85 °C
• during storage	-40 ... +85 °C	-40 ... +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation	Climate class 3K3, 5 ... 95% no condensation
<b>connection method</b>		
type of electrical connection	screw terminal	screw terminal
• at input	L1, L2, L3, PE: 1 screw terminal each for 0.2 ... 4 mm <sup>2</sup> single-core/finely stranded	L1, L2, L3, PE: 1 screw terminal each for 0.5 ... 4 mm <sup>2</sup> single-core/finely stranded

## Technical specifications (continued)

Article number	6EP3436-8SB00-0AY0	6EP3437-8SB00-0AY0
product brand name	SITOP PSU8200	SITOP PSU8200
type of current supply	24 V/20 A	24 V/40 A
• at output	+, -: 2 screw terminals each for 0.2 ... 4 mm <sup>2</sup>	+: 2 screw terminals each for 0.5 ... 16 mm <sup>2</sup> ; -: 3 screw terminals each for 0.5 ... 16 mm <sup>2</sup>
• for auxiliary contacts	13, 14 (alarm signal): 1 screw terminal each for 0.14 ... 1.5 mm <sup>2</sup> ; 15, 16 (Remote): 1 screw terminal each for 0.14 ... 1.5 mm <sup>2</sup>	13, 14 (alarm signal), 15, 16 (Remote): 1 screw terminal each for 0.05 ... 2.5 mm <sup>2</sup>
<b>mechanical data</b>		
width × height × depth of the enclosure	70 mm × 125 mm	135 mm × 150 mm
installation width × mounting height	70 mm	135 mm
required spacing		
• top	50 mm	40 mm
• bottom	50 mm	40 mm
• left	0 mm	0 mm
• right	0 mm	0 mm
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15	Snaps onto DIN rail EN 60715 35x15
• standard rail mounting	Yes	Yes
• S7 rail mounting	No	No
• wall mounting	No	No
housing can be lined up	Yes	Yes
net weight	1.2 kg	3.3 kg
<b>accessories</b>		
electrical accessories	Buffer module	Buffer module
mechanical accessories	Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20	Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20
<b>further information internet links</b>		
internet link		
• to website: Industry Mall	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
• to web page: selection aid TIA Selection Tool	<a href="https://siemens.com/tst">https://siemens.com/tst</a>	<a href="https://siemens.com/tst">https://siemens.com/tst</a>
• to website: Industrial communication	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>
• to website: CAx-Download-Manager	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>additional information</b>		
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)
<b>security information</b>		
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## Advanced power supplies

SITOP PSU8200

3-phase, 24 V DC

### Technical specifications (continued)

Article number	6EP3436-8SB00-0AY0	6EP3437-8SB00-0AY0
product brand name	SITOP PSU8200	SITOP PSU8200
type of current supply	24 V/20 A	24 V/40 A
	soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <a href="https://www.siemens.com/cert.">https://www.siemens.com/cert.</a> (V4.7)	soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <a href="https://www.siemens.com/cert.">https://www.siemens.com/cert.</a> (V4.7)

## Overview



The 3-phase SITOP PSU8200 are technology power supplies for challenging solutions. The wide-range input allows a connection to almost any electricity supply network worldwide and ensures a high degree of safety even if there are large voltage fluctuations.

To further increase 36 V availability, SITOP power supplies can be combined with redundancy modules.

**Product highlights**

- 3-phase, 36 V DC / 13 A
- Input voltage 320 ... 575 V AC
- Up to 94% efficiency
- cULus, cCSAus, ABS and DNV GL certifications

## Selection and ordering data

SITOP PSU8200 3-phase, 36 V DC/13 A	6EP3446-8SB10-0AY0
Stabilized power supply Input: 400 ... 500 V 3 AC Output: 36 V DC/13 A	

## Accessories

SITOP RED1200 redundancy modules	For more information, visit: <a href="http://www.siemens.com/sitop-redundancy/mall">www.siemens.com/sitop-redundancy/mall</a>
Device identification labels	3RT2900-1SB20

## Technical specifications

Article number	6EP3446-8SB10-0AY0
product brand name	SITOP PSU8200
type of current supply	36 V/13 A
<b>input</b>	
type of the power supply network	3-phase AC
supply voltage at AC	
• minimum rated value	400 V
• maximum rated value	500 V
• initial value	320 V
• full-scale value	575 V
wide range input	Yes
buffering time for rated value of the output current in the event of power failure minimum	15 ms
operating condition of the mains buffering	at $V_{in} = 400$ V
line frequency	50 Hz/60 Hz
line frequency	47 ... 63 Hz
input current	
• at rated input voltage 400 V	1.2 A
• at rated input voltage 500 V	1 A
current limitation of inrush current at 25 °C maximum	16 A
I <sup>2</sup> t value maximum	0.8 A <sup>2</sup> ·s
fuse protection type	none
fuse protection type in the feeder	Required: 3-pole connected miniature circuit breaker 6 ... 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489)
<b>output</b>	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	36 V
output voltage	
• at output 1 at DC rated value	36 V
	36 V
output voltage adjustable	Yes; via potentiometer
adjustable output voltage	36 ... 42 V; max. 480 W
relative control precision of the output voltage	
• on slow fluctuation of input voltage	0.1 %
• on slow fluctuation of ohm loading	0.2 %
residual ripple	
• maximum	100 mV
voltage peak	
• maximum	200 mV
display version for normal operation	Green LED for 36 V OK
type of signal at output	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for 36 V OK
behavior of the output voltage when switching on	No overshoot of $V_{out}$ (soft start)
response delay maximum	2.5 s
voltage increase time of the output voltage	
• maximum	500 ms

## Advanced power supplies

SITOP PSU8200

3-phase, 36 V DC

## Technical specifications (continued)

Article number	6EP3446-8SB10-0AY0
product brand name	SITOP PSU8200
type of current supply	36 V/13 A
output current	
• rated value	13 A
• rated range	0 ... 13 A; +60 ... +70 °C: Derating 2%/K
	10.1 ... 19.9 A
supplied active power typical	468 W
short-term overload current	
• at short-circuit during operation typical	39 A
duration of overloading capability for excess current	
• at short-circuit during operation	25 ms
constant overload current	
• on short-circuiting during the start-up typical	14 A
bridging of equipment	Yes; switchable characteristic
number of parallel-switched equipment resources	2
<b>efficiency</b>	
efficiency in percent	94 %
power loss [W]	
• at rated output voltage for rated value of the output current typical	30 W
<b>closed-loop control</b>	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.1 %
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	1 %
setting time	
• load step 50 to 100% typical	0.2 ms
• load step 100 to 50% typical	0.2 ms
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	2 %
setting time	
• load step 10 to 90% typical	0.2 ms
• load step 90 to 10% typical	0.2 ms
• maximum	10 ms
<b>protection and monitoring</b>	
design of the overvoltage protection	< 48 V
property of the output short-circuit proof	Yes
design of short-circuit protection	Alternatively, constant current characteristic approx. 14 A or latching shutdown
• typical	14 A
overcurrent overload capability	
• in normal operation	overload capability 150 % I <sub>out</sub> rated up to 5 s/min
enduring short circuit current RMS value	
• typical	14 A
display version for overload and short circuit	LED yellow for "overload", LED red for "latching shutdown"

## Technical specifications (continued)

Article number	6EP3446-8SB10-0AY0
product brand name	SITOP PSU8200
type of current supply	36 V/13 A
<b>safety</b>	
galvanic isolation between input and output	Yes
galvanic isolation	Safety extra low output voltage V <sub>out</sub> according to EN 60950-1
operating resource protection class	Class I
leakage current	
• maximum	3.5 mA
• typical	0.9 mA
protection class IP standard	IP20
• for emitted interference	EN 55022 Class B
• for mains harmonics limitation	EN 61000-3-2
• for interference immunity	EN 61000-6-2
<b>standards, specifications, approvals</b>	
certificate of suitability	
• CE marking	Yes
• UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
• CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
• EAC approval	Yes
• Regulatory Compliance Mark (RCM)	Yes
• NEC Class 2	No
• SEMI F47	Yes
type of certification	
• CB-certificate	Yes
<b>standards, specifications, approvals hazardous environments</b>	
certificate of suitability	
• IECEx	No
• ATEX	No
• ULhazloc approval	No
• cCSAus, Class 1, Division 2	No
• FM registration	No
<b>standards, specifications, approvals marine classification</b>	
shipbuilding approval	Yes
Marine classification association	
• American Bureau of Shipping Europe Ltd. (ABS)	No
• French marine classification society (BV)	No
• Det Norske Veritas (DNV)	Yes
• Lloyds Register of Shipping (LRS)	No
<b>standards, specifications, approvals Environmental Product Declaration</b>	
Environmental Product Declaration	Yes
Global Warming Potential [CO <sub>2</sub> eq]	

## Technical specifications (continued)

<b>Article number</b>	6EP3446-8SB10-0AY0
<b>product brand name</b>	SITOP PSU8200
<b>type of current supply</b>	36 V/13 A
<ul style="list-style-type: none"> <li>• total</li> <li>• during manufacturing</li> <li>• during operation</li> <li>• after end of life</li> </ul>	958.4 kg 18.9 kg 939 kg 0.27 kg
<b>ambient conditions</b>	
ambient temperature	
• during operation	-25 ... +70 °C; with natural convection
• during transport	-40 ... +85 °C
• during storage	-40 ... +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation
<b>connection method</b>	
type of electrical connection	screw terminal
• at input	L1, L2, L3, PE: 1 screw terminal each for 0.2 ... 4 mm <sup>2</sup> single-core/finely stranded
• at output	+, -: 2 screw terminals each for 0.2 ... 4 mm <sup>2</sup>
• for auxiliary contacts	13, 14 (alarm signal): 1 screw terminal each for 0.14 ... 1.5 mm <sup>2</sup> ; 15, 16 (Remote): 1 screw terminal each for 0.14 ... 1.5 mm <sup>2</sup>
<b>mechanical data</b>	
width × height × depth of the enclosure	70 mm × 125 mm
installation width × mounting height	70 mm
required spacing	
• top	50 mm
• bottom	50 mm
• left	0 mm
• right	0 mm
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
• standard rail mounting	Yes
• S7 rail mounting	No
• wall mounting	No
housing can be lined up	Yes
net weight	1.2 kg
<b>accessories</b>	
mechanical accessories	Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20
<b>further information internet links</b>	
internet link	
• to website: Industry Mall	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
• to web page: selection aid TIA Selection Tool	<a href="https://siemens.com/tst">https://siemens.com/tst</a>
• to website: Industrial communication	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>
• to website: CAx-Download-Manager	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>additional information</b>	
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

## Technical specifications (continued)

<b>Article number</b>	6EP3446-8SB10-0AY0
<b>product brand name</b>	SITOP PSU8200
<b>type of current supply</b>	36 V/13 A
<b>security information</b>	
security information	<p>Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit <a href="http://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a>. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <a href="https://www.siemens.com/cert.(V4.7)">https://www.siemens.com/cert.(V4.7)</a></p>

## Advanced power supplies

### SITOP PSU8200

3-phase, 48 V DC

#### Overview



The 3-phase SITOP PSU8200 are technology power supplies for challenging solutions. The wide-range input allows a connection to almost any electricity supply network worldwide and ensures a high degree of safety even if there are large voltage fluctuations.

#### Product highlights

- 3-phase, 48 V DC/ 10 A and 20 A
- Input voltage 320 ... 575 V AC
- Up to 94% efficiency
- cULus, cCSAus, ABS and DNV GL certifications

#### Selection and ordering data

<b>SITOP PSU8200 3-phase, 48 V DC/10 A</b> Stabilized power supply Input: 400 ... 500 V 3 AC Output: 48 V DC/10 A	6EP3446-8SB00-0AY0
<b>SITOP PSU8200 3-phase, 48 V DC/20 A</b> Stabilized power supply Input: 400 ... 500 V 3 AC Output: 48 V DC/20 A	6EP3447-8SB00-0AY0

#### Accessories

<b>SITOP RED1200 redundancy modules</b>	For more information, visit: <a href="http://www.siemens.com/sitop-redundancy/mall">www.siemens.com/sitop-redundancy/mall</a>
<b>SITOP SEL1200 48 V/10 A selectivity module</b>	For more information, visit: <a href="http://www.siemens.com/sitop-selectivity/mall">www.siemens.com/sitop-selectivity/mall</a>
<b>Device identification labels</b>	3RT2900-1SB20

## Technical specifications

Article number	6EP3446-8SB00-0AY0	6EP3447-8SB00-0AY0
product brand name	SITOP PSU8200	SITOP PSU8200
type of current supply	48 V/10 A	48 V/20 A
<b>input</b>		
type of the power supply network	3-phase AC	3-phase AC
supply voltage at AC		
• minimum rated value	400 V	400 V
• maximum rated value	500 V	500 V
• initial value	320 V	320 V
• full-scale value	575 V	575 V
wide range input	Yes	Yes
buffering time for rated value of the output current in the event of power failure minimum	15 ms	10 ms
operating condition of the mains buffering	at $V_{in} = 400$ V	at $V_{in} = 400$ V
line frequency	50 Hz/60 Hz	50 Hz/60 Hz
line frequency	47 ... 63 Hz	45 ... 65 Hz
input current		
• at rated input voltage 400 V	1.2 A	2 A
• at rated input voltage 500 V	1 A	1.7 A
current limitation of inrush current at 25 °C maximum	16 A	13 A
I <sup>2</sup> t value maximum	0.8 A <sup>2</sup> ·s	2.24 A <sup>2</sup> ·s
fuse protection type	none	
fuse protection type in the feeder	Required: 3-pole connected miniature circuit breaker 6 ... 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489)	Required: 3-pole connected miniature circuit breaker 10 ... 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489)
<b>output</b>		
voltage curve at output	Controlled, isolated DC voltage	Controlled, isolated DC voltage
output voltage at DC rated value	48 V	48 V
output voltage		
• at output 1 at DC rated value	48 V	48 V
	48 V	48 V
output voltage adjustable	Yes; via potentiometer	Yes; via potentiometer
adjustable output voltage	42 ... 56 V; max. 480 W	46 ... 56 V; max. 960 W
relative control precision of the output voltage		
• on slow fluctuation of input voltage	0.1 %	0.1 %
• on slow fluctuation of ohm loading	0.2 %	0.2 %
residual ripple		
• maximum	100 mV	100 mV
voltage peak		
• maximum	200 mV	480 mV
display version for normal operation	Green LED for 48 V OK	Green LED for 48 V OK
type of signal at output	Relay contact (NO contact, rating 60 V DC/0.3 A) for 48 V OK	Relay contact (NO contact, rating 60 V DC/0.3 A) for 48 V OK
behavior of the output voltage when switching on	No overshoot of $V_{out}$ (soft start)	minimal overshoot (< 3 %)
response delay maximum	2.5 s	0.1 s
voltage increase time of the output voltage		
• maximum	500 ms	100 ms
output current		
• rated value	10 A	20 A
• rated range	0 ... 10 A; +60 ... +70 °C: Derating 2%/K	0 ... 20 A; +60 ... +70 °C: Derating 4%/K
supplied active power typical	10 A	20 A
short-term overload current	480 W	960 W

## Advanced power supplies

### SITOP PSU8200

#### 3-phase, 48 V DC

#### Technical specifications (continued)

Article number	6EP3446-8SB00-0AY0	6EP3447-8SB00-0AY0
product brand name	SITOP PSU8200	SITOP PSU8200
type of current supply	48 V/10 A	48 V/20 A
• at short-circuit during operation typical	30 A	60 A
duration of overloading capability for excess current		
• at short-circuit during operation	25 ms	25 ms
constant overload current		
• on short-circuiting during the start-up typical	11 A	24 A
bridging of equipment	Yes; switchable characteristic	Yes; switchable characteristic
number of parallel-switched equipment resources	2	2
<b>efficiency</b>		
efficiency in percent	94 %	94 %
power loss [W]		
• at rated output voltage for rated value of the output current typical	31 W	58 W
• during no-load operation maximum		4 W
<b>closed-loop control</b>		
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.1 %	1 %
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	1 %	3 %
setting time		
• load step 50 to 100% typical	0.2 ms	
• load step 100 to 50% typical	0.2 ms	
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	2 %	
setting time		
• load step 10 to 90% typical	0.2 ms	
• load step 90 to 10% typical	0.2 ms	
• maximum	10 ms	10 ms
<b>protection and monitoring</b>		
design of the overvoltage protection	< 60 V	< 57.8 V
property of the output short-circuit proof	Yes	Yes
design of short-circuit protection	Alternatively, constant current characteristic approx. 11 A or latching shutdown	Alternatively, constant current characteristic approx. 22 A or latching shutdown
• typical	11 A	22 A
overcurrent overload capability		
• in normal operation	overload capability 150 % I <sub>out</sub> rated up to 5 s/min	overload capability 150 % I <sub>out</sub> rated up to 5 s/min
enduring short circuit current RMS value		
• typical	11 A	26 A
display version for overload and short circuit	LED yellow for "overload", LED red for "latching shutdown"	LED yellow for "overload", LED red for "latching shutdown"
<b>safety</b>		
galvanic isolation between input and output	Yes	Yes
galvanic isolation	Safety extra low output voltage U <sub>out</sub> according to EN 60950-1	Safety extra-low output voltage U <sub>out</sub> acc. to EN 60950-1 and EN 50178
operating resource protection class	Class I	Class I
leakage current		
• maximum	3.5 mA	1 mA
• typical	0.9 mA	0.6 mA
protection class IP	IP20	IP20
standard		
• for emitted interference	EN 55022 Class B	EN 55022 Class B
• for mains harmonics limitation	EN 61000-3-2	EN 61000-3-2
• for interference immunity	EN 61000-6-2	EN 61000-6-2

## Technical specifications (continued)

Article number	6EP3446-8SB00-0AY0	6EP3447-8SB00-0AY0
product brand name	SITOP PSU8200	SITOP PSU8200
type of current supply	48 V/10 A	48 V/20 A
<b>standards, specifications, approvals</b>		
certificate of suitability		
• CE marking	Yes	Yes
• UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
• CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
• EAC approval	Yes	Yes
• Regulatory Compliance Mark (RCM)	Yes	Yes
• NEC Class 2	No	No
• SEMI F47	Yes	Yes
type of certification		
• CB-certificate	Yes	Yes
MTBF at 40 °C		520 782 h
<b>standards, specifications, approvals hazardous environments</b>		
certificate of suitability		
• IECEx	No	No
• ATEX	No	No
• ULhazloc approval	No	No
• cCSAus, Class 1, Division 2	No	No
• FM registration	No	No
<b>standards, specifications, approvals marine classification</b>		
shipbuilding approval	Yes	Yes
Marine classification association		
• American Bureau of Shipping Europe Ltd. (ABS)	Yes	No
• French marine classification society (BV)	No	No
• Det Norske Veritas (DNV)	Yes	Yes
• Lloyds Register of Shipping (LRS)	No	No
<b>standards, specifications, approvals Environmental Product Declaration</b>		
Environmental Product Declaration	Yes	Yes
Global Warming Potential [CO <sub>2</sub> eq]		
• total	989.5 kg	1 865.9 kg
• during manufacturing	18.9 kg	49.6 kg
• during operation	970 kg	1 814.8 kg
• after end of life	0.27 kg	0.71 kg
<b>ambient conditions</b>		
ambient temperature		
• during operation	-25 ... +70 °C; with natural convection	-25 ... +70 °C; With natural convection
• during transport	-40 ... +85 °C	-40 ... +85 °C
• during storage	-40 ... +85 °C	-40 ... +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation	Climate class 3K3, 5 ... 95% no condensation
<b>connection method</b>		
type of electrical connection	screw terminal	screw terminal
• at input	L1, L2, L3, PE: 1 screw terminal each for 0.2 ... 4 mm <sup>2</sup> single-core/finely stranded	L1, L2, L3, PE: 1 screw terminal each for 0.5 ... 4 mm <sup>2</sup> single-core/finely stranded
• at output	+, -: 2 screw terminals each for 0.2 ... 4 mm <sup>2</sup>	+: 2 screw terminals each for 0.5 ... 16 mm <sup>2</sup> ; -: 3 screw terminals each for 0.5 ... 16 mm <sup>2</sup>
• for auxiliary contacts	13, 14 (alarm signal): 1 screw terminal each for 0.14 ... 1.5 mm <sup>2</sup> ; 15, 16 (Remote): 1 screw terminal each for 0.14 ... 1.5 mm <sup>2</sup>	13, 14 (alarm signal), 15, 16 (Remote): 1 screw terminal each for 0.05 ... 2.5 mm <sup>2</sup>

## Advanced power supplies

## SITOP PSU8200

## 3-phase, 48 V DC

## Technical specifications (continued)

Article number	6EP3446-8SB00-0AY0	6EP3447-8SB00-0AY0
product brand name	SITOP PSU8200	SITOP PSU8200
type of current supply	48 V/10 A	48 V/20 A
<b>mechanical data</b>		
width × height × depth of the enclosure	70 mm × 125 mm	135 mm × 150 mm
installation width × mounting height	70 mm	135 mm
required spacing		
• top	50 mm	40 mm
• bottom	50 mm	40 mm
• left	0 mm	0 mm
• right	0 mm	0 mm
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15	Snaps onto DIN rail EN 60715 35x15
• standard rail mounting	Yes	Yes
• S7 rail mounting	No	No
• wall mounting	No	No
housing can be lined up	Yes	Yes
net weight	1.2 kg	3.3 kg
<b>accessories</b>		
mechanical accessories	Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20	Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20
<b>further information internet links</b>		
internet link		
• to website: Industry Mall	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
• to web page: selection aid TIA Selection Tool	<a href="https://siemens.com/tst">https://siemens.com/tst</a>	<a href="https://siemens.com/tst">https://siemens.com/tst</a>
• to website: Industrial communication	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>	<a href="http://www.siemens.com/simatic-net">http://www.siemens.com/simatic-net</a>
• to website: CAx-Download-Manager	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>
<b>additional information</b>		
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)
<b>security information</b>		
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit <a href="http://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a> . Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit <a href="http://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a> . Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial

## Technical specifications (continued)

Article number	6EP3446-8SB00-0AY0	6EP3447-8SB00-0AY0
product brand name	SITOP PSU8200	SITOP PSU8200
type of current supply	48 V/10 A	48 V/20 A
	Cybersecurity RSS Feed under <a href="https://www.siemens.com/cert.">https://www.siemens.com/cert.</a> (V4.7)	Cybersecurity RSS Feed under <a href="https://www.siemens.com/cert.">https://www.siemens.com/cert.</a> (V4.7)