

SITOP PSU8200 advanced power supplies

Technology power supply for demanding applications

New: Ex version



Technical data	SITOP PSU8200 1-phase				SITOP PSU200M 1-phase/2-phase ²⁾
Output voltage/current, type	24 V/5 A, PSU8200	24 V/10 A, PSU8200	24V/20 A, PSU8200	24 V/40 A, PSU8200	24 V/5 A, PSU200M
Article No.	6EP3333-8SB00-0AY0	6EP3334-8SB00-0AY0	6EP1336-3BA10	6EP3337-8SB00-0AY0	6EP1333-3BA10
Article No. Ex version				6EP3337-8SC00-0AY0	
Rated input voltage – Range	120–230 V AC 85...132/170...264 V AC, automatic range switching		120–230 V AC 85...275 V AC or 88...350 V DC		120–230/230–500 V AC 85...264/176...550 V AC
Mains buffering	> 35 ms (at 120/230 V)	> 35 ms (at 120/230 V)	> 20 ms (at 120/230 V)	> 25 ms (at 230 V)	> 25 ms (at 120/230 V)
Rated line frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Rated input current – Inrush current ¹⁾ – Recommended miniature circuit breaker	2.1/1.2 A < 10 A 6 A charact. C or 3RV2021-1xA10	4/1.9 A < 10 A 10 A charact. C or 3RV2021-1xA10	4.6–2.5 A < 20 A 10 A charact. C or 3RV2021-1xA10	15.0/8.0 A < 50 A 20 A charact. C or 3RV2411-xxA10	2.2–1.2/1.2–0.61 A < 35 A 6 A charact. C or 3RV2011-1xA10
Rated output voltage – Tolerance – Setting range	24 V DC ± 3 % 24...28.8 V DC	24 V DC ± 3 % 24...28.8 V DC	24 V DC ± 3 % 24...28.8 V DC	24 V DC ± 3 % 24...28.8 V DC	24 V DC ± 3 % 24...28.8 V DC
Rated output current	5 A	10 A	20 A	40 A	5 A
– Overload behavior (power boost for 25 ms)	15 A	30 A	60 A	120 A	15 A
– Overload behavior (extra power for 5 s/min)	7.5 A	15 A	30 A	60 A	No
– Derating	No	from +60 °C (2%/K)	from +60 °C (3%/K)	from +60 °C (2.5%/K)	from +60 °C (2%/K)
Efficiency at rated values, approx.	93 %	94 %	93 %	92 %	88 %
Signaling contact "DC o. k."	Yes	Yes	Yes	Yes	Yes
Remote On/Off	Yes	Yes	No	No	No
Parallel switching	Yes, output characteristic can be switched to parallel operation				
Electronic short-circuit protection	Yes, constant current or latching shutdown selectable; constant current: approx. 1.15 x rated output current				
Radio interference suppression (EN 55022)	Class B	Class B	Class B	Class B	Class B
Line harmonics limitation	Yes (EN 61000-3-2)	Yes (EN 61000-3-2)	Yes (EN 61000-3-2)	Yes (EN 61000-3-2)	Yes (EN 61000-3-2)
Degree of protection (EN 60529)	IP20	IP20	IP20	IP20	IP20
Ambient temperature	–25...+70 °C	–25...+70 °C	–25...+70 °C	–25...+70 °C	–25...+70 °C
Dimensions (W x H x D) in mm	45 x 125 x 125	55 x 125 x 125	90 x 125 x 125	145 x 145 x 150	70 x 125 x 121
Weight approx.	0.8 kg	1 kg	1.5 kg	3.1 kg	0.6 kg
Certification	CE, cULus, CB, SEMI F47 ³⁾ , DNV GL, ABS		CE, cULus, DNV GL, ABS		CE, cULus, CB, SEMI F47 ³⁾ , DNV GL, ABS

¹⁾ Inrush current can be limited using a SITOP inrush current limiter: 6EP4683-6LB00-0AY0 (max. 5 A, 100–240 V AC) or 6EP1967-2AA00 (max. 10 A, 100–480 V AC, 1 unit per phase required).

²⁾ Connection to two phases of a three-phase supply network ³⁾ For input voltage 208–230 V AC ⁴⁾ In connection with two buffer modules
Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified).

					
SITOP PSU200M 1-phase/2-phase²⁾	SITOP PSU8200 3-phase		SITOP PSU8200 3-phase, 36 V	SITOP PSU8200 3-phase, 48 V	
24 V/10 A, PSU200M	24 V/20 A, PSU8200	24 V/40 A, PSU8200	36 V/13 A, PSU8200	48 V/10 A, PSU8200	48 V/20 A, PSU8200
<u>6EP1334-3BA10</u>	<u>6EP3436-8SB00-0AY0</u>	<u>6EP3437-8SB00-0AY0</u>	<u>6EP3446-8SB10-0AY0</u>	<u>6EP3446-8SB00-0AY0</u>	<u>6EP3447-8SB00-0AY0</u>
120–230/230–500 V AC 85...264/176...550 V AC	400–500 V 3 AC 320...575 V 3 AC	400–500 V 3 AC 320...575 V 3 AC	400–500 V 3 AC 320...575 V 3 AC	400–500 V 3 AC 320...575 V 3 AC	400–500 V 3 AC 320...575 V 3 AC
> 25 ms (at 120/230 V)	> 15 ms (at 400 V)	> 10 ms (at 400 V)	> 15 ms (at 400 V)	> 15 ms (at 400 V)	> 10 ms (at 400 V)
50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
4.4–2.4/2.4–1.1 A < 35 A 6 A charact. C or 3RV2011-1xA10	1.2–1.0 A < 18 A 6–16 A charact. C 3-ph. coupled or 3RV2011-1DA10 or 3RV2711-1DD10	2.1–1.7 A < 13 A 10–16 A charact. C 3-ph. coupled or 3RV2011-1DA10 or 3RV2711-1DD10	1.2–1.0 A < 18 A 6–16 A charact. C 3-ph. coupled or 3RV2011-1DA10 or 3RV2711-1DD10	1.2–1.0 A < 18 A 6–16 A charact. C 3-ph. coupled or 3RV2011-1DA10 or 3RV2711-1DD10	2–1.7 A < 13 A 10–16 A charact. C 3-ph. coupled or 3RV2011-1DA10 or 3RV2711-1DD10
24 V DC ± 3 % 24...28.8 V DC	24 V DC ± 3 % 24...28.8 V DC	24 V DC ± 3 % 24...28 V DC	36 V DC ± 3 % 36...40 V DC	48 V DC ± 3 % 42...56 V DC	48 V DC ± 3 % 46...56 V DC
10 A	20 A	40 A	13 A	10 A	20 A
30 A	60 A	120 A	39 A	23 A	60 A
No	30 A	60 A	19.5 A	15 A	30 A
from +60 °C (2%/K)	from +60 °C (3%/K)	from +60 °C (4 %/K)	from +60 °C (3%/K)	from +60 °C (3%/K)	from +60 °C (4 %/K)
91 %	94 %	94 %	94 %	93 %	94 %
Yes	Yes	Yes	Yes	Yes	Yes
No	Yes	Yes	Yes	Yes	Yes
Yes, output characteristic can be switched to parallel operation					
Yes, constant current or latching shutdown selectable; constant current: approx. 1.15 x rated output current					
Class B	Class B	Class B	Class B	Class B	Class B
Yes (EN 61000-3-2)	Yes (EN 61000-3-2)	Yes (EN 61000-3-2)	Yes (EN 61000-3-2)	Yes (EN 61000-3-2)	Yes (EN 61000-3-2)
IP20	IP20	IP20	IP20	IP20	IP20
–25...+70 °C	–25...+70 °C	–25...+70 °C	–10...+70 °C	–25...+70 °C	–25...+70 °C
70 x 125 x 121	70 x 125 x 125	135 x 145 x 150	70 x 125 x 125	70 x 125 x 125	135 x 145 x 150
1.4 kg	1.2 kg	3.3 kg	1.2 kg	1.2 kg	3.3 kg
CE, cULus, CB, SEMI F47 ³⁾ , DNV GL, ABS			CE, cULus, CB		CE, cULus, CB, DNV GL, ABS
					CE, cULus, CB, SEMI F47