





Special design PSU300B	SITOP smart PSU300S	SITOP modular PSU300M	SITOP modular
30 A	40 A	40 A	40 A
6EP1437-3BA20	6EP1437-2BA20	6EP1437-3BA10 ¹⁾	6EP1437-3BA00 ^{1) 2)}
			
For battery charging optimized power supply with three-phase wide-range input for global use; slim design; with integrated signaling contact for "24 V OK", functional expansion possible using add-on modules.	High-performance, standard power supply for 3-phase networks 400-500 V 3 AC, high overload capability through extra power with 1.5 times the rated current for 5 s and continuous 120 % output power to +45 °C ambient temperature.	The modular power supply with 3-phase wide-range input for global use; slim design; with 50 % extra power and switchable output characteristic; with integrated signaling contact for "24 V OK"; functional expansion possible using add-on modules.	Modular power supply with 3-phase wide-range input for use around the world in a wide variety of applications; functional expansion possible using add-on modules.

Expansion modules, such as redundancy modules or selectivity modules for the protection of 24 V feeds (chapter 10), and DC UPS for additional protection against power failures (chapter 11)

Special design PSU300B	SITOP smart PSU300S	SITOP modular PSU300M	SITOP modular
3-phase AC 400 ... 500 V 3 AC	3-phase AC 400 ... 500 V 3 AC	3-phase AC 400 ... 500 V 3 AC	3-phase AC 400 ... 500 V 3 AC
			Startup from $U_{in} > 340$ V
320 ... 575 V	340 ... 550 V	320 ... 575 V	320 ... 550 V
20 ms at $U_{in} = 400$ V	6 ms at $U_{in} = 400$ V	15 ms at $U_{in} = 400$ V	$2.3 \times U_{in rated}$, 1.3 ms 6 ms at $U_{in} = 400$ V
50 Hz 60 Hz 47 ... 63 Hz	50 Hz 60 Hz 47 ... 63 Hz	50 Hz 60 Hz 47 ... 63 Hz	50 Hz 60 Hz 47 ... 63 Hz
1.6 A 1.3 A	1.7 A 1.5 A	2.6 A 2.1 A	2.2 A
max. 56 A 2.24 A ² s	max. 60 A 3.4 A ² s	max. 56 A 2.24 A ² s	max. 70 A 2.8 A ² s
None Required: 3-pole coupled miniature circuit breaker 10 ... 16 A characteristic C or circuit breaker 3RV2011-1DA10, (setting 3 A) or 3RV2711-1DD10 (UL 489)	None Required: 3-pole coupled miniature circuit breaker 10 ... 16 A characteristic C or circuit breaker 3RV2011-1DA10, (setting 3 A) or 3RV2711-1DD10 (UL 489)	None Required: 3-pole coupled miniature circuit breaker 10 ... 16 A characteristic C or circuit breaker 3RV2011-1DA10, (setting 3 A) or 3RV2711-1DD10 (UL 489)	None Required: 3-pole coupled miniature circuit breaker 10 ... 16 A characteristic C or circuit breaker 3RV2011-1DA10, (setting 3 A) or 3RV2711-1DD10 (UL 489)
Controlled, isolated DC voltage 24 V 3 % 0.1 % 0.1 % Max. 100 mV Max. 200 mV	Controlled, isolated DC voltage 24 V 3 % 1 % 2 % Max. 150 mV Max. 240 mV	Controlled, isolated DC voltage 24 V 3 % 0.1 % 0.2 % Max. 100 mV Max. 200 mV	Controlled, isolated DC voltage 24 V 3 % 0.1 % 0.2 % Max. 100 mV Max. 200 mV

¹⁾ SIPLUS module, see page 14/4.

²⁾ SITOP modular plus 6EP1336-3BA00-8AA0, PCB with protective coating.

Special design PSU300B	SITOP smart PSU300S	SITOP modular PSU300M	SITOP modular
30 A	40 A	40 A	40 A
6EP1437-3BA20	6EP1437-2BA20	6EP1437-3BA10	6EP1437-3BA00
24 ... 28.8 V Yes via potentiometer Green LED for 24 V OK Relay contact (NO contact, rating 60 V DC/0.3 A) for 24 V OK No overshoot of U_{out} (soft start)	24 ... 28 V Yes via potentiometer Max. 960 W Green LED for 24 V OK Relay contact (NO contact, rating 60 V DC/0.3 A) for 24 V OK No overshoot of U_{out} (soft start)	24 ... 28.8 V Yes via potentiometer Max. 960 W Green LED for 24 V OK Relay contact (NO contact, rating 60 V DC/0.3 A) for 24 V OK No overshoot of U_{out} (soft start)	24 ... 28.8 V Yes via potentiometer Max. 960 W Green LED for 24 V OK possible via signaling module (6EP1961-3BA10) No overshoot of U_{out} (soft start)
2.5 s 500 ms 30 A 0 ... 30 A +60 ... +70 °C: Derating 1.7%/K	1.5 s 15 ms 500 ms 40 A 0 ... 40 A 48 A up to +45 °C; +60 ... +70 °C: Derating 2.5%/K	2.5 s 500 ms 40A 0 ... 40 A +60 ... +70 °C: Derating 3.75%/K	2.5 s 500 ms 40 A 0 ... 40 A +60 ... +70 °C: Derating 2%/K
960 W 32 A 32 A	960 W 65 A 65 A 120 ms 120 ms	960 W 120 A 44 A 25 ms	960 W 120 A 46 A 25 ms
Yes Switchable characteristic 2	Yes 2	Yes Switchable characteristic 2	Yes Switchable characteristic 2
93 % 50 W	91.5 % 89 W	92 % 83 W	90 % 106 W
1 % 3 %	3 % 1.5 %	1 % 3 %	1 % 2 %
10 ms	1 ms 1 ms 10 ms	10 ms	4 ms 4 ms 10 ms
< 35 V 32 A Yes	In the event of an internal fault $U_{out} < 35 V$ 50 A Yes	< 35 V 44 A Yes	< 35 V 46 A Yes
Optional constant current characteristic approx. 32 A or latching shutdown 32 A Yellow LED for "overload", red LED for "latching shutdown"	Electronic shutdown, automatic restart 14 A Overload capability 150 % $I_{out rated}$ up to 5 s/min	Optional constant current characteristic approx. 44 A or latching shutdown 44 A Overload capability 150 % $I_{out rated}$ up to 5 s/min Yellow LED for "overload", red LED for "latching shutdown"	Optional constant current characteristic approx. 46 A or latching shutdown 46 A Yellow LED for "overload", red LED for "latching shutdown"

Special design PSU300B	SITOP smart PSU300S	SITOP modular PSU300M	SITOP modular
30 A	40 A	40 A	40 A
6EP1437-3BA20	6EP1437-2BA20	6EP1437-3BA10	6EP1437-3BA00
Yes SELV output voltage U_{out} according to EN 60950-1 and EN 50178 Class I 3.5 mA	Yes SELV output voltage U_{out} according to EN 60950-1 and EN 50178 Class I	Yes SELV output voltage U_{out} according to EN 60950-1 and EN 50178 Class I 3.5 mA	Yes SELV output voltage U_{out} according to EN 60950-1 and EN 50178 Class I 3.5 mA
Yes	Yes	Yes	Yes
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	Yes UL-listed (UL 508), File E197259, CSA (CSA C22.2 No. 14, CSA C22.2 No. 107.1)
–	ATEX (EX) II 3G Ex nA nC IIC T3; cCSAus (CSA C22.2 No. 213, ANSI/ISA-12.12.01) Class I Div. 2 Group ABCD T3	ATEX (EX) II 3G Ex nA nC IIC T4; cCSAus (CSA C22.2 No. 213, ANSI/ISA-12.12.01) Class I Div. 2 Group ABCD T4	ATEX (Ex) II 3G Ex nA nC IIC T3 Gc; cCSAus (CSA C22.2 No. 213, ANSI/ISA-12.12.01) Class I Div. 2 Group ABCD T3
–	Yes	–	–
No	GL, ABS	Yes	No
–	IP20	GL, ABS	–
IP20	IP20	IP20	IP20
EN 55022 Class B EN 61000-3-2 EN 61000-6-2	EN 55022 Class B EN 61000-3-2 EN 61000-6-2	EN 55022 Class B EN 61000-3-2 EN 61000-6-2	EN 55022 Class B EN 61000-3-2 EN 61000-6-2
–25 ... +70 °C with natural convection –40 ... +85 °C –40 ... +85 °C Climate class 3K3, without condensation	0 ... +70 °C with natural convection –40 ... +85 °C –40 ... +85 °C Climate class 3K3, without condensation	–25 ... +70 °C with natural convection –40 ... +85 °C –40 ... +85 °C Climate class 3K3, without condensation	0 ... +70 °C with natural convection –40 ... +85 °C –40 ... +85 °C Climate class 3K3, without condensation
Screw terminals L, N, PE: 1 screw terminal each for 0.2 ... 4 mm ² solid/finely stranded +, -: 2 screw terminals each for 0.33 ... 10 mm ² 13, 14 (alarm signal): 1 screw terminal each for 0.14 ... 1.5 mm ²	Screw terminals L1, L2, L3, PE: 1 screw terminal each for 0.2 ... 4 mm ² solid/finely stranded +, -: 2 screw terminals each for 0.5 ... 10 mm ² 13, 14 (alarm signal): 1 screw terminal each for 0.14 ... 1.5 mm ²	Screw terminals L1, L2, L3, PE: 1 screw terminal each for 0.2 ... 4 mm ² solid/finely stranded +, -: 2 screw terminals each for 0.33 ... 10 mm ² 13, 14 (alarm signal): 1 screw terminal each for 0.14 ... 1.5 mm ²	Screw terminals L1, L2, L3, PE: 1 screw terminal each for 0.2 ... 4 mm ² solid/finely stranded +, -: 2 screw terminals each for 0.33 ... 10 mm ² –
150 mm 125 mm 150 mm 150 mm 225 mm 3.4 kg Yes	150 mm 145 mm 150 mm 150 mm 225 mm 3.7 kg Yes	150 mm 125 mm 150 mm 150 mm 225 mm 3.4 kg Yes	240 mm 125 mm 125 mm 240 mm 225 mm 3.2 kg Yes
No Yes No Snaps onto DIN rail EN 60715 35x15 Buffer module (chapter 10)	No Yes No Snaps onto DIN rail EN 60715 35x15 Buffer module (chapter 10)	No Yes No Snaps onto DIN rail EN 60715 35x15 Buffer module (chapter 10)	No Yes No Snaps onto DIN rail EN 60715 35x15 Signaling module, buffer module (chapter 10)
Device labeling plate 20 mm x 7 mm, pale turquoise 3RT1900-1SB20	Device labeling plate 20 mm x 7 mm, pale turquoise 3RT1900-1SB20	Device labeling plate 20 mm x 7 mm, pale turquoise 3RT1900-1SB20	

SITOP 3-phase

24 V DC

Output current 20 A to 40 A

Selection and ordering data

Product	Input Voltage $U_{in \text{ rated}}$	Output Voltage $U_{out \text{ rated}}$	Current $I_{out \text{ rated}}$	Order No.	Price
SITOP smart, PSU300S 	400-500 V 3 AC	24 V DC	20 A	6EP1436-2BA10	
SITOP modular PSU300M 	400-500 V 3 AC	24 V DC	20 A	6EP1436-3BA10	
SITOP modular 	400-500 V 3 AC Variant with PCB with protective coating	24 V DC	20 A	6EP1436-3BA00 6EP1436-3BA00-8AA0	
Special design, PSU300B 	400-500 V 3 AC	24 V DC	30 A	6EP1437-3BA20	
SITOP smart, PSU300S 	400-500 V 3 AC	24 V DC	40 A	6EP1437-2BA20	
SITOP modular PSU300M 	400-500 V 3 AC	24 V DC	40 A	6EP1437-3BA10	
SITOP modular 	400-500 V 3 AC Variant with PCB with protective coating	24 V DC	40 A	6EP1437-3BA00 6EP1437-3BA00-8AA0	

Further information

You can find additional information in the Internet at:

- 2D dimensional drawings, 3D CAD data, circuit diagram macros:
www.siemens.com/sitop-cax
- Operating instructions:
www.siemens.com/sitop-manuals
- SITOP Selection Tool:
www.siemens.com/sitop-selection-tool

Mounting areas and fixing options (continued)

Power supply	Order No.	Required mounting area in mm (W x H)	Mounting on a DIN rail acc. to EN 60715		Wall mounting
			35 x 7.5 mm	35 x 15 mm	
SITOP 24 V, 3-phase power supplies					
24 V/8 A	6EP1433-2CA00 ⁴⁾	Approx. 310 x 285			X
	6ES7148-4PC00-0HA0 ⁴⁾	Approx. 310 x 285			X
24 V/10 A	6EP1434-2BA10	90 x 225	X	X	
24 V/17 A	6EP1436-3BA20	70 x 225	X	X	
24 V/20 A	6EP1436-3BA10	70 x 225	X	X	
	6EP1436-3BA00	160 x 225	X	X	
	6EP1436-2BA10	90 x 225	X	X	
24 V/30 A	6EP1437-2BA20	150 x 225		X	
24 V/40 A	6EP1437-3BA10	150 x 225		X	
	6EP1437-3BA00	240 x 225		X	
	6EP1437-2BA20	150 x 225		X	
SITOP 24 V, uninterruptible power supplies					
SITOP UPS500S (2.5 kW)	6EP1933-2EC41	120 x 225	X	X	
SITOP UPS500S (5 kW)	6EP1933-2EC51	120 x 225	X	X	
SITOP UPS501S expansion module	6EP1935-5PG01	70 x 225	X	X	
SITOP UPS500P (5 kW)	6EP1933-2NC01	500 x 178			X
SITOP UPS500P (10 kW)	6EP1933-2NC11	570 x 178			X
SITOP UPS1600 10A (with USB interface; with Ethernet/ Profinet interface)	6EP4134-3AB00-0AY0 (-1AY0; -2AY0)	50 x 225	X	X	
SITOP UPS1600 20A (with USB interface; with Ethernet/ Profinet interface)	6EP4136-3AB00-0AY0 (-1AY0; -2AY0)	50 x 225	X	X	
DC UPS 6 A (with serial/ USB interface)	6EP1931-2DC21 (-2DC31/-2DC42)	50 x 225	X	X	
DC UPS 15 A (with serial/ USB interface)	6EP1931-2EC21 (-2EC31/-2EC42)	50 x 225	X	X	
DC UPS 40 A (with serial/ USB interface)	6EP1931-2FC21 (-2FC42)	102 x 225	X	X	
SITOP 24 V, uninterruptible power supplies, battery modules					
SITOP UPS1100 1.2 Ah	6EP4131-0GB00-0AY0	116 x 126	X	X	X
SITOP UPS1100 3.2 Ah	6EP4133-0GB00-0AY0	210 x 171	X	X	X
SITOP UPS1100 7 Ah	6EP4134-0GB00-0AY0	206 x 188			X
Battery module 1.2 Ah	6EP1935-6MC01	116 x 126	X	X	X
Battery module 2.5 Ah	6EP1935-6MD31	285 x 171	X	X	X
Battery module 3.2 Ah	6EP1935-6MD11	210 x 171	X	X	X
Battery module 7 Ah	6EP1935-6ME21	206 x 188			X
Battery module 12 Ah	6EP1935-6MF01	273 x 138			X
SITOP 24 V, expansion modules					
Signaling module	6EP1961-3BA10	26 x 225			
Redundancy module	6EP1962-2BA00	30 x 180	X	X	
	6EP1964-2BA00	30 x 180	X	X	
	6EP1961-3BA21	70 x 225	X	X	