

Selection table

SITOP power supplies

Input voltage	Output current	SITOP compact	LOGO!Power	SITOP lite	SITOP smart	SITOP modular	SIMATIC Design	"Special design, special use"	
Output voltage 24 V DC									
1-phase 120 V AC, 230 V AC	0.6 A	6EP1331-5BA00							
	1.3 A	6EP1331-5BA10	6EP1331-1SH03						
	2 A						6ES7307-1BA01-0AA0	6EP1331-1LD00	
	2.5 A	6EP1332-5BA00	6EP1332-1SH43	6EP1332-1LB00	6EP1332-2BA20		6EP1332-1SH71	6EP1232-1AA00	
	3 A						6EP1332-4BA00	6EP1332-1LD00	
	3.5 A						6EP1332-1SH31		
	3.7 A							6EP1332-2BA00	
	4 A	6EP1332-5BA10	6EP1332-1SH52					6EP1332-1LD10	
	5 A			6EP1333-1LB00	6EP1333-2BA20	6EP1333-3BA10	6ES7307-1EA01-0AA0	6EP1333-1AL12	
						6EP3333-8SB00-0AY0	6ES7307-1EA80-0AA0	6EP1333-7CA00	
	6.2 A							6EP1333-1LD00	
	8 A						6EP1333-4BA00	6EP1334-7CA00	
	10 A			6EP1334-1LB00	6EP1334-2BA20	6EP1334-3BA10	6ES7307-1KA02-0AA0	6EP1334-1AL12	
						6EP1334-2AA01-0AB0	6EP3334-8SB00-0AY0		
	12.5 A							6EP1334-1LD00	
	20 A			6EP1336-1LB00	6EP1336-2BA10	6EP1336-3BA10			
	40 A					6EP1337-3BA00			
	3-phase 400 – 500 V AC	5 A				6EP1433-2BA20	6EP1333-3BA10 ¹⁾		6EP1433-1AL12
		8 A						6ES7148-4PC00-0HA0	6ES7 148-4PC00-0HA0
10 A					6EP1434-2BA10	6EP1334-3BA10 ¹⁾			
17 A								6EP4436-8UB00-0AY0	
20 A					6EP1436-2BA10	6EP3436-8SB00-0AY0			
						6EP3436-8MB00-2CY0			
20 A / 4 x 5 A						6EP3436-8SB00-2CY0			
30 A								6EP1437-3BA20	
40 A					6EP1437-2BA20	6EP1437-3BA10			
						6EP3437-8MB00-2CY0			
	40 A / 4 x 10 A					6EP3437-8SB00-2CY0			
24 – 110 V DC	2 A						6ES7305-1BA80-0AA0		
110 – 300 V DC	0.6 A	6EP1331-5BA00							
	1.3 A	6EP1331-5BA10	6EP1331-1SH03						
	2.5 A	6EP1332-5BA00	6EP1332-1SH43						
	4 A	6EP1332-5BA10	6EP1332-1SH52						
88...350 (370) V DC	20 A			6EP1336-1LB00		6EP1336-3BA10			
600 V DC	20 A						6EP1536-3AA00		

¹⁾ Connection to 2 phases 230 – 500 V AC – see data sheet SITOP modular 1-/2-phase

Grey: more information in the Industry Mall

Input voltage	Output	SITOP compact	LOGO!Power	SITOP smart	SITOP modular	"Special design special use"
Output voltage 5, 12, 15, 48, ... V DC						
1-phase 120 V AC, 230 V AC	5 V/3 A		6EP1311-1SH03			
	5 V/6.3 A		6EP1311-1SH13			
	12 V/1.9 A		6EP1321-1SH03			
	12 V/2.0 A	6EP1321-5BA00				
	12 V/3.0 A					6EP1321-1LD00
	12 V/4.5 A		6EP1322-1SH03			
	12 V/6.5 A	6EP1322-5BA10				
	12 V/7 A			6EP1322-2BA00		
	12 V/8.3 A					6EP1322-1LD00
	12 V/14 A			6EP1323-2BA00		
	15 V/1.9 A		6EP1351-1SH03			
	15 V/4 A		6EP1352-1SH03			
24 V DC	3 – 52 V/2 – 10 A					6EP1353-2BA00
	2 x 15 V/3.5 A					6EP1353-0AA00
	12 V/2.5 A					6EP1621-2BA00
3-phase 400 – 500 V AC	12 V/20 A					6EP4424-8UB00-0AY0
	36 V/13 A				6EP3446-8SB10-0AY0	
	48 V/10 A				6EP1456-3BA00	
	48 V/20 A				6EP1457-3BA00	

SITOP Selection Tool Making the perfect choice

The SITOP selection tool shortens the time it takes to select not only your power supply but also the matching uninterruptible power supply (DC UPS) based on capacitor or battery technology. You can order the selected products easily via the Siemens Industry Mall. And you'll also receive further information such as product data sheets, 3D data, or circuit diagram macros for fast and easy project planning.

The tool is available on the internet and in the Industry Mall:

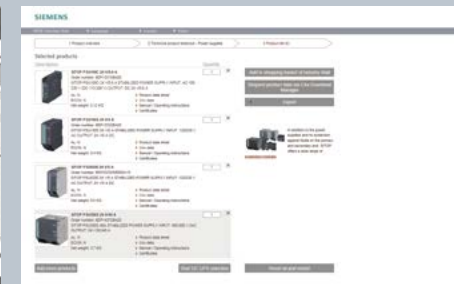
www.siemens.com/sitop-selection-tool
www.siemens.com/industrymall



Step 1:
The appropriate power supplies are preselected based on the user's technical requirements







Step 2:
Several power supplies can be compared based on their technical data for further product selection



Step 3:
After the desired products have been selected from the product list, these selections can be exported or transferred directly to the user's Industry Mall shopping basket

SITOP compact

Slim power supply for control boxes

							
Technical data	Overall width 22.5 mm	Overall width 30 mm		Overall width 45 mm	Overall width 52.5 mm		
Output voltage / current, type	24 V/0.6 A, PSU100C	24 V/1.3 A, PSU100C	12 V/2 A, PSU100C	24 V/2.5 A, PSU100C	24 V/4 A, PSU100C	24 V/3.7 A, PSU100C NEC Class 2	12 V/6.5 A, PSU100C
Article No.	6EP1331-5BA00	6EP1331-5BA10	6EP1321-5BA00	6EP1332-5BA00	6EP1332-5BA10	6EP1332-5BA20	6EP1322-5BA10
Rated input voltage	100–230 V AC	100–230 V AC	100–230 V AC	100–230 V AC	100–230 V AC	100–230 V AC	100–230 V AC
– Range	85...264 V AC/ 110...300 V DC	85...264 V AC/ 110...300 V DC	85...264 V AC/ 110...300 V DC	85...264 V AC/ 110...300 V DC	85...264 V AC/ 110...300 V DC	85...264 V AC/ 110...300 V DC	85...264 V AC/ 110...300 V DC
Mains buffering	> 20 ms (at 120/230 V AC)	> 20 ms (at 120/230 V AC)	> 20 ms (at 120/230 V AC)	> 20 ms (at 120/230 V AC)	> 20 ms (at 120/230 V AC)	> 20 ms (at 120/230 V AC)	> 20 ms (at 120/230 V AC)
Rated line frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Rated input current	0.28–0.18 A	0.63–0.31 A	0.63–0.31 A	1.33–0.67 A	2.25–1.15 A	1.21–0.67 A	1.6–0.75 A
– Recommended miniature circuit breaker	10 A characteristic C 16 A characteristic B	10 A characteristic C 16 A characteristic B	10 A characteristic C 16 A characteristic B	10 A characteristic C 16 A characteristic B	10 A characteristic C 16 A characteristic B	10 A characteristic C 16 A characteristic B	10 A characteristic C 16 A characteristic B
Rated output voltage	24 V DC	24 V DC	12 V DC	24 V DC	24 V DC	24 V DC	12 V DC
– Tolerance	± 3 %	± 3 %	± 3 %	± 3 %	± 3 %	± 3 %	± 3 %
– Setting range	–	22.2...26.4 V DC	10.5...12.9 V DC	22.2...26.4 V DC	22.2...26.4 V DC	–	10.5...12.9 V DC
Rated output current	0.6 A	1.3 A	2 A	2.5 A	4 A	3.7 A	6.5 A
– Derating	from +55 °C (3%/K)	from +55 °C (3%/K)	from +55 °C (3%/K)	from +50 °C (3.5%/K)	from +50 °C (3.5%/K)	from +50 °C (3.5%/K)	from +50 °C (3.5%/K)
Efficiency at rated values, approx.	82 %	86 %	82 %	87 %	88 %	87 %	86 %
No-load loss	< 0.75 W	< 0.75 W	< 0.75 W	< 0.75 W	< 0.75 W	< 0.75 W	< 0.75 W
Signaling contact "DC o. k."	No	No	No	No	No	No	No
Parallel switching	No	Yes ²⁾	Yes ²⁾	Yes ²⁾	Yes ²⁾	No	Yes ²⁾
Electronic short-circuit protection	Yes, restart	Yes, restart	Yes, restart	Yes, restart	Yes, restart	Yes, restart	Yes, restart
Radio interference suppression (EN 55022)	Class B	Class B	Class B	Class B	Class B	Class B	Class B
Supply harmonics limitation (EN 61000-3-2)	Not applicable	Not applicable	Not applicable	Not applicable	Yes	Yes	Yes
Degree of protection (EN 60529)	IP20	IP20	IP20	IP20	IP20	IP20	IP20
Ambient temperature	–20...+70 °C	–20...+70 °C	–20...+70 °C	–20...+70 °C	–20...+70 °C	–20...+70 °C	–20...+70 °C
Dimensions (WxHxD) in mm	22.5 x 80 x 100	30 x 80 x 100	30 x 80 x 100	45 x 80 x 100	52.5 x 80 x 100	52.5 x 80 x 100	52.5 x 80 x 100
Weight approx.	0.12 kg	0.17 kg	0.12 kg	0.22 kg	0.32 kg	0.32 kg	0.32 kg
Connections ¹⁾	Removable screw terminal	Removable screw terminal	Removable screw terminal	Removable screw terminal	Removable screw terminal	Removable screw terminal	Removable screw terminal
Certification	CE, cULus, cCSAus, CB, ATEX, cCSAus Class I Div 2, GL, ABS	CE, cULus, cCSAus, CB, ATEX, cCSAus Class I Div 2, GL, ABS	CE, cULus, cCSAus, CB, ATEX, cCSAus Class I Div 2, GL, ABS	CE, cULus, cCSAus, CB, ATEX, cCSAus Class I Div 2, GL, ABS	CE, cULus, cCSAus, CB, ATEX, cCSAus Class I Div 2, GL, ABS	CE, cULus, CB, NEC class 2, cCSAus Class I Div 2, GL, ABS	CE, cULus, cCSAus, CB, ATEX, cCSAus Class I Div 2, GL, ABS

¹⁾ Accessory: removable spring-type terminal, Article No. 6EP1971-5BA00 ²⁾ The maximum starting current is limited to the rated output current of one power supply
 Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

LOGO!Power

Flat power supply for distribution boards








In LOGO! 8 design



Technical data	54 mm design				72 mm design				90 mm design
Output voltage / current	5V/3A	12V/1.9A	15V/1.9A	24V/1.3A	5V/6.3A	12V/4.5A	15V/4A	24V/2.5A	24V/4A
Article No.	6EP1311-1SH03	6EP1321-1SH03	6EP1351-1SH03	6EP1331-1SH03	6EP1311-1SH13	6EP1322-1SH03	6EP1352-1SH03	6EP1332-1SH43	6EP1332-1SH52
Rated input voltage – Range	100 – 240 V AC 85...264 V AC/ 110...300 V DC				100 – 240 V A 85...264 V AC/ 110...300 V DC				100 – 240 V AC 85...264 V AC/ 110...300 V DC
Mains buffering	> 40 ms (at 187 V)				> 40 ms (at 187 V)				> 40 ms (at 187 V)
Rated line frequency	50/60 Hz				50/60 Hz				50/60 Hz
Rated input current – Inrush current (25 °C)	0.36 – 0.22 A < 26 A	0.53 – 0.30 A < 25 A	0.63 – 0.33 A < 25 A	0.70 – 0.35 A < 25 A	0.71 – 0.37 A < 50 A	1.13 – 0.61 A < 55 A	1.24 – 0.68 A < 55 A	1.22 – 0.66 A < 46 A	1.95 – 0.97 A < 30 A
– Recommended miniature circuit breaker	10 A characteristic C resp. 16 A characteristic B				10 A characteristic C resp. 16 A characteristic B				10 A char. C resp. 16 A char. B
Rated output voltage – Tolerance	5 V DC ± 3 %	12 V DC	15 V DC	24 V DC	5 V DC ± 3 %	12 V DC	15 V DC	24 V DC	24 V DC ± 3 %
– Setting range	4.6...5.4 V DC	10.5...16.1 V DC	10.5...16.1 V DC	22.2...26.4 V DC	4.6...5.4 V DC	10.5...16.1 V DC	10.5...16.1 V DC	22.2...26.4 V DC	22.2...26.4 V DC
Output current – rated value – Derating	3.0 A from +55 °C (2%/K)	1.9 from +55 °C (2%/K)	1.9 A from +55 °C (2%/K)	1.3 A from +55 °C (2%/K)	6.3 A from +55 °C (2%/K)	4.5 A from +55 °C (2%/K)	4.0 A from +55 °C (2%/K)	2.5 A from +55 °C (2%/K)	4.0 A from +55 °C (2%/K)
Efficiency at rated values, approx.	77 %	80 %	81 %	85 %	83 %	85 %	85 %	88 %	89 %
No-load loss	< 1.5 W	< 1.8 W	< 2 W	< 2 W	< 1.5 W	< 1.9 W	< 2.3 W	< 1.8 W	< 2 W
Signaling contact "DC o. k."	No	No	No	No	No	No	No	No	No
Parallel switching	Yes				Yes				Yes
Electronic short-circuit protection	Yes, constant current				Yes, constant current				Yes, constant current
Radio interference suppression (EN 55022)	Class B				Class B				Class B
Supply harmonics limitation (EN 61000-3-2)	Not applicable				Not applicable				Yes
Degree of protection (EN 60529)	IP20				IP20				IP20
Ambient temperature	–20... +70 °C				–20... +70 °C				–20... +70 °C
Dimensions (WxHxD) in mm	54 x 90 x 55				72 x 90 x 55				90 x 90 x 55
Weight approx.	0.17 kg				0.25 kg				0.34 kg
Certification	CE, cULus, CB, FM, ATEX, cCSAus Class I Div 2, GL, ABS	CE, cULus, CB, FM, ATEX, cCSAus Class I Div 2, GL, ABS	CE, cULus, CB, FM, ATEX, cCSAus Class I Div 2, GL, ABS	CE, cULus, CB, FM, ATEX, SEMI F47, NEC Class 2, cCSAus Class I Div 2, GL, ABS, DNV, BV, LRS	CE, cULus, CB, FM, ATEX, cCSAus Class I Div 2, GL, ABS	CE, cULus, CB, FM, ATEX, cCSAus Class I Div 2, GL, ABS	CE, cULus, CB, FM, ATEX, cCSAus Class I Div 2, GL, ABS	CE, cULus, CB, FM, ATEX, SEMI F47, NEC Class2, cCSAus Class I Div 2, GL, ABS, DNV, BV, LRS	CE, cULus, CB, FM, ATEX, SEMI F47, cCSAus Class I Div 2, GL, ABS, DNV, BV, LRS

Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

SITOP in SIMATIC design

							
Technical data	SIMATIC S7-1200 design	SIMATIC S7-300 design			SIMATIC S7-1500 design		SIMATIC ET200pro design
Output voltage / curr., type	24 V/2.5 A, PM1207	24 V/2 A, PS307	24 V/5 A, PS307	24 V/10 A, PS307	24 V/3 A, PM1507	24 V/8 A, PM1507	24 V/8 A, ET200pro PS
Article No.	6EP1332-1SH71	6ES7307-1BA01-0AA0	6ES7307-1EA01-0AA0	6ES7307-1KA02-0AA0	6EP1332-4BA00	6EP1333-4BA00	6ES7 148-4PC00-0HA0
Rated input voltage	120/230 V AC automatic range selection	120/230 V AC automatic range selection	120/230 V AC automatic range selection	120/230 V AC automatic range selection	120/230 V AC automatic range selection	120/230 V AC automatic range selection	380 – 480 V 3 AC
– Range	85...132/176...264 V AC	85...132/170...264 V AC	85...132/170...264 V AC	85...132/170...264 V AC	85...132/176...264 V AC	85...132/176...264 V AC	340...550 V 3 AC
Mains buffering	> 20 ms (at 93/187 V)	> 20 ms (at 93/187 V)	> 20 ms (at 93/187 V)	> 20 ms (at 93/187 V)	> 20 ms (at 93/187 V)	> 20 ms (at 93/187 V)	3 ms (at 400V)
Rated line frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Rated input current	1.2/0.67 A	0.9/0.5 A	2.3/1.2 A	4.2/1.9 A	1.4 A/0.8 A	3.7 A/1.7 A	1 A
– Inrush current (25°C)	< 13 A	< 22 A	< 20 A	< 55 A	< 23 A	< 67 A	< 40 A
– Recommended miniature circuit breaker	16 A charakt. B, 10 A charakt. C	3 A charakt. C	6 A charakt. C	10 A charakt. C	from 6 A charakt. C, from 10 A charakt. B	from 10 A charakt. C, from 16 A charakt. B	3RV2021-4NA10
Rated output voltage	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC
– Tolerance	± 3 %	± 3 %	± 3 %	± 3 %	± 3 %	± 3 %	– 5%/+3 %
– Setting range	–	–	–	–	–	–	–
– On/off switch	No	Yes	Yes	Yes	Yes	Yes	No
Rated output current	2.5 A	2 A	5 A	10 A	3 A	8 A	8 A
– Overload characteristics (extra power for 5 s/min)	–	–	–	–	4.5 A	12 A	–
Efficiency at rated values, approx.	83 %	84 %	87 %	90 %	87 %	90 %	88 %
Signaling contact "DC o. k."	No	No	No	No	No	No	Yes, and for overheating
Parallel switching	Yes	Yes	Yes	Yes	Yes	Yes	No
Electr. short-circuit protection	Yes, constant current char.	Yes, restart	Yes, restart	Yes, restart	Yes, restart	Yes, restart	Yes, restart
Radio suppression level (EN 55022)	Class B	Class B	Class B	Class B	Class B	Class B	EN 61000-6-4 (Class A)
Supply harmonics limitation (EN 61000-3-2)	Not applicable	Not applicable	Yes	Yes	Not applicable	Yes	No
Degree of protection (EN 60529)	IP20	IP20	IP20	IP20	IP20	IP20	IP67, UL: encl. type 5 indoor
Ambient temperature	0...+60 °C	0...+60 °C	0...+60 °C	0...+60 °C	0...+60 °C	0...+60 °C	–25°C...+55°C
Installation	DIN rail or wall mounting	Can be mounted on S7 rail. Mounting adapter for DIN rail 35 x15 mm: 6EP1971-1BA00			on S7-1500 system carrier	on S7-1500 system carrier	Screw mounting, e.g., on SIMATIC ET 200pro system rail
Mass (W x H x D) in mm	70 x 100 x 75	40 x 125 x 120	60 x 125 x 120	80 x 125 x 120	50 x 147 x 135	75 x 147 x 135	310 x 135,5 w/o connector x 90
Weight approx.	0.3 kg	0.4 kg	0.6 kg	0.8 kg	0.45 kg	0.74 kg	2.8 kg
Certification	CE, cULus, CB, FM, ATEX, cCSAus Class I Div 2, GL, ABS, DNV	CE, cULus, ATEX, cULus Class I Div 2, GL, ABS, DNV			CE, cULus, CB, ATEX, IECEx, cULus Class I Div 2, FM, GL, ABS, BV		CE, ULus508

Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

SITOP lite

Cost-effective basic power supply

new!



Technical data	SITOP lite			
Output voltage / current, type	24 V/2.5 A, PSU100L	24 V/5 A, PSU100L	24 V/10 A, PSU100L	24 V/20 A, PSU100L
Article No.	6EP1332-1LB00	6EP1333-1LB00	6EP1334-1LB00	6EP1336-1LB00 ¹⁾
Rated input voltage	120/230 V AC	120/230 V AC	120 / 230 V AC	100-230 V AC
– Range	93...132/187...264 V AC	93...132/187...264 V AC	93...132/187...264 V AC	85...264V /DC 88...370V AC
Mains buffering	> 20 ms (at 93/187 V)	> 20 ms (at 93/187 V)	> 20 ms (at 93/187 V)	> 20 ms (at 93/187 V)
Rated line frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Rated input current	1.1/0.65 A	2.1/1.15 A	4.3/2.4 A	5.55/2.35 A
– Inrush current (25 °C)	< 27 A	< 32 A	< 65 A	< 45 A
– Recommended miniature circuit breaker	3 A Characteristic C	6 A Characteristic C	10A Characteristic C	10 A Characteristic C
Rated output voltage	24 V DC	24 V DC	24 V DC	24 V DC
– Tolerance	± 3 %	± 3 %	± 3 %	± 3 %
– Setting range	22.8...26.4 V DC	22.8...26.4 V DC	22.8...26.4 V DC	22.8...28 V DC
Rated output current	2.5 A	5 A	10 A	20 A
– Derating	from +45 °C (1.5%/K)	from +45 °C (1.5%/K)	from +45 °C (2%/K)	from +45 °C (2.5%/K)
Efficiency at rated values, approx.	85 %	86 %	89 %	92 %
Signaling contact "DC o. k."	No	No	No	No
Parallel switching	Yes	Yes	Yes	Yes
Electronic short-circuit protection	Yes, constant current	Yes, constant current	Yes, constant current	Yes, constant current
Radio interference suppression (EN 55022)	Class A	Class A	Class A	Class A
Supply harmonics limitation (EN 61000-3-2)	Not applicable	no	No	Yes
Degree of protection (EN 60529)	IP20	IP20	IP20	IP20
Ambient temperature	0... +60 °C	0... +60 °C	0... +60 °C	-25... +70 °C
Dimensions (WxHxD) in mm	32.5 x 125 x 120	50 x 125 x 120	70 x 125 x 120	110x125x125
Weight approx.	0.4 kg	0.5 kg	0.75 kg	1.8 kg
Certification	CE, cULus, CB	CE, cULus, CB	CE, cULus, CB	CE, cULus, CB

¹⁾ Delivery start date: February 2016

Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

SITOP smart

Powerful standard power supply



Technical data	SITOP smart 1-phase					
Output voltage/current, type	24 V/2.5 A, PSU100S	24 V/5 A, PSU100S	12 V/7A, PSU100S	24 V/10 A, PSU100S	12 V/14 A, PSU100S	24 V/20 A, PSU100S
Article No.	6EP1 332-2BA20	6EP1 333-2BA20	6EP1 322-2BA00	6EP1 334-2BA20	6EP1 323-2BA00	6EP1336-2BA10
Rated input voltage	120/230 V AC	120/230 V AC	120/230 V AC	120/230 V AC	120/230 V AC	120/230 V AC
– Rate	85...132/170...264 V AC, automatic range switching					
Mains buffering	> 20 ms (at 93/187V)	> 20 ms (at 93/187V)	> 20 ms (at 93/187V)	> 20 ms (at 93/187V)	> 20 ms (at 93/187V)	> 20 ms (at 120/230 V)
Rated line frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Rated input current	1.25 A/0.74 A	2.34 A/1.36 A	1.73 A/0.99 A	4.49 A/1.91 A	3.24 A/1.41 A	7.5/3.5 A
– Inrush current (25 °C)	< 33	< 40 A	< 45 A	< 60 A	< 60 A	< 11 A
– Recommended miniature circuit breaker	from 3 A, characteristic C	from 6 A, characteristic C	from 6 A, characteristic C	from 10 A, characteristic C	from 10 A, characteristic C	from 10 A, characteristic C
Rated output voltage	24 V DC	24 V DC	12 V DC	24 V DC	12 V DC	24 V DC
– Tolerance	± 3 %	± 3 %	± 3 %	± 3 %	± 3 %	± 3 %
– Setting range	22.8...28 V DC	22.8...28 V DC	11.5...15.5 V DC	22.8...28 V DC	11.5...15.5 V DC	22.8...28 V DC
Rated output current	2.5 A	5 A	7 A	10 A	14 A	20 A
– Permanently up to +45 °C	3 A	6 A	7 A	12 A	14 A	24 A
– Overload behavior (extra power for 5 s/min)	3.75 A	7.5 A	10.5 A	15 A	21 A	30 A
– Derating	from +60 °C (3 %/ K)	from +60 °C (3 %/ K)	from +55 °C (5 %/ K)	from +60 °C (3 %/ K)	from +55 °C (5 %/ K)	from +60 °C (5 %/K)
Efficiency at rated values, approx.	85 %	88 %	84 %	90 %	87 %	90 %
Signaling contact "DC o. k."	Yes	Yes	Yes	Yes	Yes	Yes
Parallel switching	Yes	Yes	Yes	Yes	Yes	Yes
Electronic short-circuit protection	Yes, constant current	Yes, constant current	Yes, constant current	Yes, constant current	Yes, constant current	Yes, restart
Radio interference suppression (EN 55022)	Class B	Class B	Class B	Class B	Class B	Class B
Supply harmonics limitation (EN 61000-3-2)	Not applicable	Yes	Yes	Yes	Yes	Yes
Degree of protection (EN 60529)	IP20	IP20	IP20	IP20	IP20	IP20
Ambient temperature	–25...+70 °C	–25...+70 °C	–25...+70 °C	–25...+70 °C	–25...+70 °C	0...+70 °C (–25...+70 °C) ¹⁾
Dimensions (WxHxD) in mm	32.5 x 125 x 120	50 x 125 x 120	50 x 125 x 120	70 x 125 x 120	70 x 125 x 120	115 x 145 x 150
Weight approx.	0.32 kg	0.5 kg	0.5 kg	0.8 kg	0.8 kg	2.4 kg
Certification	CE, cULus, CB, ATEX, IECEx, cCSAus Class I Div 2, GL, BV	CE, cULus, CB, ATEX, IECEx, cCSAus Class I Div 2, GL, BV	CE, cULus, CB, ATEX, IECEx, cCSAus Class I Div 2, GL	CE, cULus, CB, ATEX, IECEx, cCSAus Class I Div 2, GL, BV	CE, cULus, CB, ATEX, IECEx, cCSAus Class I Div 2, GL	CE, cULus, CB, ATEX, IECEx, cCSAus Class I Div 2, GL

¹⁾ Delivery start date: February 2016

new!		new!	
			
SITOP smart 3-phase			
24 V/5 A, PSU300S	24 V/10A, PSU300S	24 V/20 A, PSU300S	24 V/40 A, PSU300S
6EP1433-2BA20 ²⁾	6EP1434-2BA20 ²⁾	6EP1436-2BA10	6EP1437-2BA20
400-500 V 3 AC	400 – 500 V 3 AC	400 – 500 V 3 AC	400 – 500 V 3 AC
340 ... 550 V 3 AC	340...550 V 3 AC	340...550 V 3 AC	340...550 V 3 AC
> 6 ms (at 400 V)	> 6 ms (at 400 V)	> 6 ms (at 400 V)	> 6 ms (at 400 V)
50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
0.45 - 0.4 A < 40 A	0.7 – 0.6 A < 50 A	1.2 – 1.0 A < 36 A	2,0 – 1,5 A < 60 A
6 – 16 A charact. C 3-ph. coupled or 3 RV2011-1DA10 or 3 RV2711-1DD10	6 – 16 A charact. C 3-ph. coupled or 3 RV2011-1DA10 or 3 RV2711-1DD10	From 6 – 16 A charact. C 3-ph. coupled or 3 RV2011-1DA10 or 3 RV2711-1DD10	From 10 – 16 A charact. C 3-ph. coupled or 3 RV2011-1DA10 or 3 RV2711-1DD10
24 V DC ± 3 % 24...28 V DC	24 V DC ± 3 % 24...28 V DC	24 V DC ± 3 % 24...28 V DC	24 V DC ± 3 % 24...28 V DC
5 A 6 A 7.5 A	10 A 12 A 15 A	20 A 24 A 30 A	40 A 48 A 60 A
from +60 °C (3%/K)	from +60 °C (3%/K)	from +60 °C (5%/K)	from +60 °C (2.5%/K)
89 %	91 %	91 %	91.5 %
Yes	Yes	Yes	Yes
Yes	Yes	Yes	Yes
Yes, restart	Yes, restart	Yes, restart	Yes, restart
Class B	Class B	Class B	Class B
Yes	Yes	Yes	Yes
IP20	IP20	IP20	IP20
-25...+70 °C	-25...+70 °C	0...+70 °C (-25 ... +70 °C) ²⁾	0...+70 °C
50 x 125 x 120	70 x 145 x 150	90 x 145 x 150	150 x 145 x 150
0.43 kg	0.67 kg	1.6 kg	3.7 kg
CE, cULus, CB, pending: ATEX, UL Class I Div 2, IECEX, GL	CE, cULus, CB, pending: ATEX, UL Class I Div 2, IECEX, GL	CE, cULus, CB, ATEX, cCSAus Class I Div 2, GL, IECEX	CE, cULus, CB, ATEX, cCSAus Class I Div 2, GL, IECEX

²⁾ Delivery start date: March 2016

Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)


SITOP modular

Technology power supply for demanding solutions



Technical data	SITOP modular 1-phase				SITOP modular 1-phase and 2-phase ¹⁾
Output voltage / current, type	24 V/5 A, PSU8200	24 V/ 10 A, PSU8200	24 V/20 A, PSU8200	24 V/40 A, PSU100M	24 V/5 A, PSU200M
Article No.	6EP3333-8SB00-0AY0	6EP3334-8SB00-0AY0	6EP1336-3BA10	6EP1337-3BA00	6EP1333-3BA10
Rated input voltage – Range	120 – 230 V AC 85...132 V/170...264 V AC, automatic range switching	120 – 230 V AC 85...275 V AC or 88...350 V DC	120 – 230 V AC 85...275 V AC or 88...350 V DC	120/230 V AC 85...132/176...264 V AC, start-up from 95/190 V	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)	> 20 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 (25 °C) – Recommended miniature circuit breaker	2.1/1.2 A < 10 A 6 A charact. C or 3RV1021-1xA10	4/1.9 A < 10 A 10 A charact. C or 3RV1021-1xA10	4.6 – 2.5 A < 20 A 10 A charact. C or 3RV1021-1xA10	15.0/8.0 A < 125 A 20 A charact. C or 3RV2011-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 – Overload behavior (power boost for 25 ms) – Overload behavior (extra power for 5 s/min) – Derating	5 A 15 A 7.5 A (Extra Power for 5 s/min) —	10 A 30 A 15 A (Extra Power for 5 s/min) from +60 °C (2%/K)	20 A 60 A 30 A (Extra Power for 5 s/min) from +60 °C (3%/K)	40 A 120 A from +60 °C (2,5%/K)	5 A 15 A from +60 °C (2%/K)
Efficiency at rated values, approx.	93 %	94 %	93 %	88 %	88 %
Signaling contact "DC o. k."	Yes	Yes	Yes	No, possible via signaling module (6EP1961-3BA10)	Yes
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
Supply harmonics limitation	Yes (EN 61000-3-2)	Yes (EN 61000-3-2)	Yes (EN 61000-3-2)	No	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	0...+70 °C	–25...+70 °C
Dimensions (WxHxD) in mm	45 x 125 x 125	55 x 125 x 125	90 x 125 x 125	240 x 125 x 125	70 x 125 x 121
Weight approx.	0.8 kg	1 kg	1.5 kg	2.9 kg	0.6 kg
Certification	CE, cULus, ATEX, IECEx, cCSAus Class I Div 2, SEMI F47 ²⁾ , GL, ABS	CE, cULus, ATEX, IECEx, UL Class I Div 2, GL, ABS	CE, cULus, ATEX, IECEx, UL Class I Div 2, GL, ABS	CE, cULus, ATEX, IECEx, cCSAus Class I Div 2, SEMI F47 ³⁾	CE, cULus, ATEX, IECEx, SEMI F47 ²⁾ , GL, ABS, UL Class I Div 2

¹⁾ Connection to two phases of a three-phase supply system ²⁾ At input voltage 208 to 230 V AC ³⁾ In conjunction with two buffer modules

			new!			
SITOP modular 1-phase and 2-phase ¹⁾	SITOP modular 3-phase		SITOP modular 3-phase, 36 V	SITOP modular 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, PSU300M	48 V/20 A, PSU300M	
6EP1334-3BA10	6EP3436-8SB00-0AY0	6EP1437-3BA10	6EP3446-8SB10-0AY0	6EP1456-3BA00	6EP1457-3BA00	
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...550 V 3 AC, start-up from 340 V	
> 25 ms (at 120/230 V)	> 15 ms (at 400 V)	> 15 ms (at 400 V)	> 15 ms (at 400 V)	> 15 ms (at 400 V)	> 6 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	2.6 – 2.1 A < 56 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	2.2 A (with 400 V) < 70 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...28.8 V DC	36 V DC ± 3 % 32...40 V DC	48 V DC ± 3 % 42...56 V DC	48 V DC ± 3 % 42...56 V DC	
10 A 30 A	20 A 60 A	40 A 120 A	13 A 39 A	10 A 23 A	20 A 60 A	
	30 A (Extra Power for 5 s/min) from +60 °C (3%/K)	60 A (Extra Power for 5 s/min) from +60 °C (3.8%/K)	19.5 A (Extra Power for 5 s/min) from +60 °C (3%/K)	15 A (Extra Power for 5 s/min) from +60 °C (3%/K)		
91 %	94 %	93 %	94 %	93 %	90 %	
Yes	Yes	Yes	Yes	Yes	No, via signaling contact module (6EP1961-3BA10)	
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	–10...+70 °C	0...+60 °C	
70 x 125 x 121	70 x 125 x 125	150 x 125 x 150	70 x 125 x 125	70 x 125 x 125	240 x 125 x 125	
1.4 kg	1.2 kg	3.4 kg	1.2 kg	1.2 kg	3.2 kg	
CE, cULus, ATEX, IECEx, SEMI F47 ²⁾ , GL, ABS, UL Class I Div 2	CE, cULus, CB, ATEX, IECEx, cCSAus Class I Div 2, SEMI F47, GL, ABS	CE; cULus, CB, ATEX, IECEx, cCSAus Class I Div 2, SEMI F47, GL, ABS	CE; cULus, CB, cCSAus Class I Div 2, GL, ABS	CE; cULus, CB, ATEX, IECEx, cCSAus Class I Div 2, GL, ABS	CE, UL, CSA, GL, ABS	

¹⁾ Connection to two phases of a three-phase supply system²⁾ At input voltage 208 to 230 V AC
Specifications at rated input voltage and ambient temperature at +25 °C (unless otherwise specified)

SITOP modular

The first power supply system with integration in TIA – SITOP PSU8600

Complete system integration

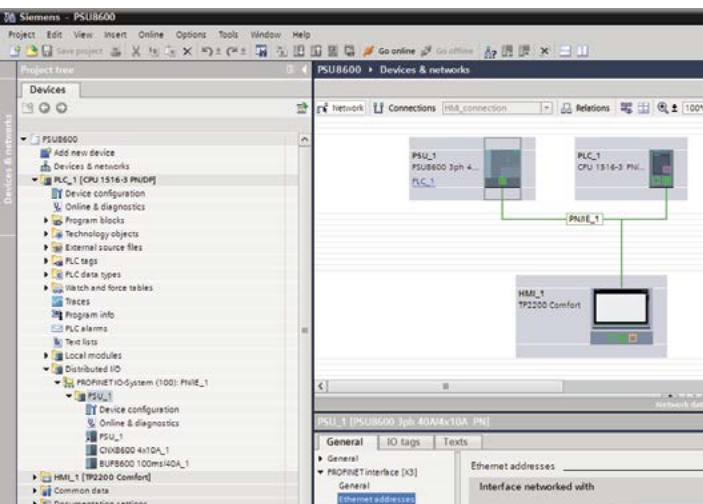
SITOP PSU8600 is the first power supply that can be completely integrated in TIA. Advantages include convenient engineering in the TIA Portal, preproduced function blocks for SIMATIC S7 user programs, as well as free WinCC faceplates. An integrated Web server makes remote diagnostics possible, and two integrated PROFINET ports are available for comprehensive data exchange.



A system with maximum reliability

Every output is constantly monitored, allowing unusual overloads to be detected early. In the event of a fault, the affected output is selectively switched off. Expansion modules can be used to split the DC voltage to as many as 20 outputs. Buffer modules can be added to protect against power failures; versions with double-layer capacitors provide many seconds of buffer time. Comprehensive diagnostic information for preventive maintenance is available through PROFINET and can be evaluated directly in SIMATIC S7 and visualized in SIMATIC WinCC.

Efficiency across the board

With its narrow width and integrated overload monitoring, the basic device conserves space in the control cabinet. The voltage of every output can be set individually, which cuts down on the number of additional power supply units which would otherwise be needed for 5 V or 12 V loads. By means of the System Clip Link, users can individually configure the system with no additional wiring effort. SITOP PSU8600 also supports energy management in plants or machines, from collecting power data of the individual outputs and switching on and off individual outputs via PROFlenergy to direct integration in power management systems.



	new!	new!
		
Technical Data	SITOP modular 3-phase basic unit, 1 output	
Output voltage / current, type	24 V/20 A, PSU8600	24 V/40 A, PSU8600
Article No.	6EP3436-8SB00-2AY0 ¹⁾	6EP3437-8SB00-2AY0 ¹⁾
Rated input voltage	400 – 500 V 3 AC	400 – 500 V 3 AC
– Range	320...575 V 3 AC	320...575 V 3 AC
Mains buffering	> 15 ms (at 400 V), extendable via buffer modules	
Rated line frequency	50/60 Hz	50/60 Hz
Rated input current	1.4 – 1.1 A	2.75 – 2.2 A
– Inrush current (25 °C)	14 A	14 A
– Recommended miniature circuit breaker	6-16 A charact. C 3-ph. coupled or 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10	
Rated output voltage	24 V DC	24 V DC
– Tolerance	± 3 %	± 3 %
– Setting range	5...28 V DC	5...28 V DC
Rated output current	20 A, one output, number can be increased via expansion modules	40 A, one output, number can be increased via expansion modules
– Overload behavior (Extra Power)	30 A for 5 s/min	60 A for 5 s/min
– Derating	from +50°C (2.5%/K). No derating in connection with expansion module and total load of basic device's outputs up to 240 W (20 A devices) or up to 480 W (40 A devices)	
– Switching threshold adjustment range	2...20 A	4...40 A
– Shutdown behavior per output	Load current 101...149% of the setting: shutdown after 5 s; load current 150% of the setting: shutdown after 200 ms	
Efficiency at rated values, approx.	93 %	94 %
Signaling contact "DC o. k."	Yes	Yes
Interface	Industrial Ethernet/PROFINET with two ports	
Parallel switching	Yes	Yes
Radio interference suppression (EN 55022)	Class B	Class B
Line harmonics limitation (EN 61000-3-2)	Yes	Yes
Degree of protection (EN 60529)	IP20	IP20
Ambient temperature	–25...+60 ° C	
Dimensions (WxHxD) in mm	80 x 125 x 150	125 x 125 x 150
Weight approx.	1.8 kg	2.65 kg
Certifications	CE, cULus, IECEx, ATEX; pending: CB, cCSAus Class I Div 2, SEMI F47, GL, ABS	
Add-on modules	up to four CNX8600 expansion modules, up to two BUF8600 buffer modules	

¹⁾ Delivery start date: January 2016

Specifications at rated input voltage and ambient temperature at +25 °C (unless otherwise specified)

SITOP modular

The first power supply system with integration in TIA – SITOP PSU8600

new!



SITOP modular 3-phase basic unit, 4 outputs

Technical Data	SITOP modular 3-phase basic unit, 4 outputs	
Output voltage / current, type	24 V/20 A/4x5 A, PSU8600	24 V/40 A/4x10 A, PSU8600
Article No.	6EP3436-8MB00-2CY0 ¹⁾	6EP3437-8MB00-2CY0
Rated input voltage	400–500 V 3 AC	400–500 V 3 AC
– Range	320...575 V 3 AC	320...575 V 3 AC
Mains buffering	> 15 ms (at 400 V), extendable via buffer modules	
Rated line frequency	50/60 Hz	50/60 Hz
Rated input current	1.4–1.1 A	2.75–2.2 A
– Inrush current (25 °C)	14 A	14 A
– Recommended miniature circuit breaker	6-16 A charact. C 3-ph. coupled or 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10	
Rated output voltage	24 V DC	24 V DC
– Tolerance	± 3 %	± 3 %
– Setting range	5...28 V DC	5...28 V DC
Rated output current	20 A, 4 outputs at 5 A each, number can be increased via expansion modules	40 A, 4 outputs at 10 A each, number can be increased via expansion modules
– Overload behavior (Extra Power)	30 A for 5 s/min	60 A for 5 s/min
– Derating	from +50 °C (2.5%/K). No derating in conjunction with expansion module and total load on the output of the basic device up to 240 W (20 A devices) or up to 480 W (40 A devices)	
– Switching threshold adjustment range	0.5...5 A	0.5...10 A
– Shutdown behavior per output	101...149% of the setting: shutdown after 5 s; 150% of setting: shutdown after 200 ms	
Efficiency at rated values, approx.	93 %	94 %
Signaling contact "DC o. k."	Yes	Yes
Interface	Industrial Ethernet/PROFINET with two ports	
Parallel switching	Parallel connection output 1 with 2 or output 3 with 4 selectable via DIP switch	
Radio interference suppression (EN 55022)	Class B	Class B
Line harmonics limitation (EN 61000-3-2)	Yes	Yes
Degree of protection (EN 60529)	IP20	IP20
Ambient temperature	–25...+60 °C	–25...+60 °C
Dimensions (WxHxD) in mm	100 x 125 x 150	125 x 125 x 150
Weight approx.	2.0 kg	2.65 kg
Certification	CE, cULus, IECEx, ATEX; pending: CB, cCSAus Class I Div 2, SEMI F47, GL, ABS	CE, cULus, CB, IECEx, ATEX, cCSAus Class I Div 2, SEMI F47, GL, pending: ABS
Add-on modules	up to four CNX8600 expansion modules, up to two BUF8600 buffer modules	



The power supply system can be fully integrated in TIA via the Industrial Ethernet/PROFINET interface (2 ports) on the PSU8600 basic unit. This offers comprehensive setting and diagnostic options in TIA Portal or via Step 7:





Setting options:

- Switching on and off individual outputs for the direct control of loads or for saving energy, for example using the PROFIenergy protocol
- Program-controlled changing of the output voltage of each output for the variable supply of loads, such as DC motors (e.g. in fans or belt drives)

Diagnostic options:

- Early detection of dynamic, continuous, or more frequently occurring overload conditions with the help of up-to-date values
- Status message for outputs (on, off, overload)
- Outputs can be freely parameterized for preventive maintenance messages
- Detection and logging of short-term power and phase failures for the analysis of network quality
- Recording of power data (current, voltage) for each output to assess potential power savings
- Advance warning of system overload and overheating

		
Technical Data	Expansion module	
Typ	4 x 5 A, CNX8600	4 x 10 A, CNX8600
Article No.	6EP4436-8XB00-0CY0	6EP4437-8XB00-0CY0
Product/function description	Expansion module for PSU8600 basic devices for distribution of the direct current to another four load circuits and monitoring for overload; selective switch-off of defective circuits, switching threshold individually configurable. A total of four modules can be used in a group of systems. Data and power are transmitted via the System Clip Link connector.	
Rated output voltage	24 V DC	24 V DC
– Tolerance	± 3%	± 3%
– Setting range	5...28 V DC	
Rated output current	20 A/4 outputs of 5 A each	40 A/4 outputs of 10 A each
	Comment: The max. output capacity of the overall PSU8600 system cannot be increased via expansion modules	
– Switching threshold adjustment range	0.5...5 A	0.5...10 A
– Shutdown behavior per output	Load current 101...149% of the setting: shutdown after 5 s, load current 150% of the setting: shutdown after 200 ms	
Dimensions (WxHxD) in mm	60 x 125 x 150	60 x 125 x 150
Weight approx.	1.15 kg	1.15 kg
Certification	ATEX, cCSAus Class I Div 2, SEMI F47, GL; pending: ABS	

				
Technical Data	Buffer module			
Typ	100 ms/40 A, BUF8600	300 ms/40 A, BUF8600	4 s/40 A, BUF8600	10 s/40 A, BUF8600
Article No.	6EP4297-8HB00-0XY0	6EP4297-8HB10-0XY0	6EP4293-8HB00-0XY0 ¹⁾	6EP4295-8HB00-0XY0 ¹⁾
Product/function description	Expansion module for PSU8600 basic devices for extending the outputs' buffer time during power failure. A total of two modules can be used in a group of systems. Data and power are transmitted via the System Clip Link connector.			
Energy storage	Electrolytic capacitors		Double-layer capacitors (Ultracaps)	
Buffer time with DC 24 V and load current				
	5 A	800 ms	2.4 s	40 s
	10 A	400 ms	1.2 s	20 s
	20 A	200 ms	600 ms	10 s
	40 A	100 ms	300 ms	4 s
Typical charging time	19 s		54 s	
Max. power during buffer operation	60 A for 5 s/min		60 A for 5 s/min	
Status messages via 3-color LED	Normal operation, buffer operation, charging, error		Normal operation, buffer operation, charging, error	
Status messages via signal contact	-		Charging status >x%, buffer operation	
Status messages via PROFINET (basic unit)	Normal operation, buffer operation, charging, error		Normal operation, buffer operation, charging, error, charging status > x%,	
Additional functions	– Remote ON/OFF contact for deactivating buffering, e.g. when shutting down the plant to prevent unnecessary discharge.			
Dimensions (WxHxD) in mm	60 x 125 x 150	125 x 125 x 150	60 x 125 x 150	125 x 125 x 150
Weight approx.	1.33 kg	2.26 kg	1.25 kg	1.95 kg
Certifications	ATEX, cCSAus Class I Div 2, SEMI F47, GL; pending: ABS		CE, cULus, IECEx, ATEX; pending: CB, cCSAus Class I Div 2, SEMI F47, GL, ABS	

¹⁾ Delivery start date: January 2016

Specifications at rated input voltage and ambient temperature at +25 °C (unless otherwise specified)





SITOP

in special design, for special uses



Technical data	Wall/panel mounting						
Output voltage / curr., type	12 V/3 A PSU100D	24 V/2.1 A PSU100D	24 V/3.1 A PSU100D	24 V/4.1 A PSU100D	12 V/8.3 A PSU100D	24 V/6.2 A PSU100D	24 V/12.5 A PSU100D
Article No.	6EP1321-1LD00	6EP1331-1LD00	6EP1332-1LD00	6EP1332-1LD10	6EP1322-1LD00	6EP1333-1LD00	6EP1334-1LD00
Rated input voltage	100–240 V AC	100–240 V AC	100–240 V AC	100–240 V AC	100–240 V AC	100–240 V AC	100–240 V AC
– Range	85...264 V AC	85...264 V AC	85...264 V AC	85...264 V AC	85...264 V AC	85...264 V AC	85...264 V AC
Mains buffering	> 15 ms (at 115/230 V)	> 15 ms (at 115/230 V)	> 15 ms (at 115/230 V)	> 15 ms (at 115/230 V)	> 15 ms (at 115/230 V)	> 15 ms (at 115/230 V)	> 15 ms (at 115/230 V)
Rated line frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Rated input current	0.75–0.5 A	1.1–0.7 A	1.5–1.0 A	2.0–1.1 A	2.0–1.1 A	3.1–2.0 A	4.0–2.0 A
– Inrush current (25°C)	< 60 A	< 60 A	< 60 A	< 75 A	< 75 A	< 75 A	< 60 A
– Recommended miniature circuit breaker	10 A characteristic C, 16 A characteristic B						
Rated output voltage	12 V DC	12 V DC	12 V DC	24 V DC	12 V DC	24 V DC	24 V DC
– Tolerance	+/- 2%	+/- 2%	+/- 2%	+/- 2%	+/- 2%	+/- 2%	+/- 2%
– Setting range	11...14 V DC	22...28 V DC	22...28 V DC	22...28 V DC	11...14 V DC	22...28 V DC	22...28 V DC
Output current – rated value	3 A	2.1 A	3.1 A	4.1 A	8.3 A	6.2 A	12.5 A
– Derating	from +50°C (2.5%/K)	from +50°C (2.5%/K)	from +50°C (2.5%/K)	from +50°C (2,5%/K)	from +50°C (2,5%/K)	from +50°C (2,5%/K)	from +50°C (2,5%/K)
Efficiency at rated values, approx.	84 %	86 %	86 %	86 %	84 %	86 %	86 %
Signaling contact "DC o. k."	No	No	No	No	No	No	No
Parallel switching	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Electronic short-circuit protection	Yes, restart	Yes, restart	Yes, restart	Yes, restart	Yes, restart	Yes, restart	Yes, restart
Radio interference suppression (EN 55022)	Class B	Class B	Class B	Class B	Class B	Class B	Class B
Supply harmonics limitation (EN 61000-3-2)	Not applicable	Not applicable	Yes	Yes	Yes	No	Yes
Degree of protection (EN 60529)	IP20	IP20	IP20	IP20	IP20	IP20	IP20
Ambient temperature	–10°C...+70°C	–10°C...+70°C	–10°C...+70°C	–10°C...+70°C	–10°C...+70°C	–10°C...+70°C	–10°C...+70°C
Installation	Wall mounting, variable installation position						
Dimensions (WxHxD) in mm	97 x 98 x 38	97 x 128 x 38	97 x 128 x 38	97 x 158 x 38	97 x 158 x 38	97 x 178 x 38	105 x 199 x 41
Weight approx.	0.37 kg	0.35 kg	0.37 kg	0.50 kg	0.57 kg	0.55 kg	0.81 kg
Certification	CE, cULu, cURus	CE, cULus, cURus	CE, cULus, cURus	CE, cULus, cURus	CE, cULus, cURus	CE, cULus, cURus	CE, cULus, cURus

Specifications at rated input voltage and ambient temperature +25°C (unless otherwise specified)

					
Technical data	DC/DC converter		High degree of protection		
Output voltage / current, type	24 V/20 A, PSU400M	12 V/2.5 A	24 V/5 A, PSU100P	24 V/8 A, PSU100P	24 V/ 8 A, ET200pro PS
Article No.	6EP1536-3AA00	6EP1621-2BA00	6EP1333-7CA00	6EP1334-7CA00	6ES7 148-4PC00-0HA0
Rated input voltage	600 V DC	24 V DC	120/230 V AC (automatic range switching)	120/230 V AC (automatic range switching)	380 – 480 V 3 AC
– Range	300...900 V DC, start-up from approx. 340 V	18.5...30.2 V DC	85... 132 V/170... 264 V AC	85... 132 V/170... 264 V AC	340...550 V 3 AC
Mains buffering	–	> 5 ms	> 40 ms (at I _{Out rated})	> 40 ms (at I _{Out rated})	3 ms (at 400 V)
Rated line frequency	–	–	50/60 Hz	50/60 Hz	50/60 Hz
Rated input current	0.85 A	1.6 A	2.25 A/1.24 A	3.5 A/1.52 A	1 A
– Inrush current (25 °C)	< 8 A	< 20 A for 20 ms	< 15 A	< 15 A	< 40 A
– Recommended miniature circuit breaker	–	10 A charact. B	from 6 A charact. C/B	from 6 A charact. C/B	3RV2021-4NA10
Rated output voltage	24 V DC	12 V DC	24 V DC	24 V DC	24 V DC
– Tolerance	± 3 %	± 3 %	± 3 %	± 3 %	– 5 %/+3 %
– Setting range	24...28.8 V DC	12...14 V DC	–	–	–
Rated output current	20 A	2.5 A	5 A	8 A	8 A
– Overload behavior (Extra Power for 5 s/min)	30 A				
– Derating	from +60 °C (5.5%/K), 300...400 V DC, 820...900 V DC				
Efficiency at rated values, approx.	95 %	83 %	90 %	93 %	88 %
Status signaling			LED green for “DC ok” and flashing red for “Overload/ short circuit.” Signal contact for “DC ok”		No
Parallel switching	Yes, output line switchable	Yes, 2 units	Yes, 2 units	Yes, 2 units	No
Electronic short-circuit protection	Yes, constant current (ca. 1.15 x I _{Out rated}) or latching shutdown selectable	Yes, constant current	Yes, restart	Yes, restart	Yes, restart
Radio suppression level (EN 55022)	Class A (emission)	Class B	Class B	Class B	EN 61000-6-4 (Class A)
Line harmonics limitation (EN 61000-3-2)	No	Yes	Yes	Yes	No
Degree of protection (EN 60529)	IP20	IP20	IP67, UL: enclosure type 4 indoor	IP67, UL: enclosure type 4 indoor	IP67, UL: encl. type 5 indoor
Ambient temperature	–25...+70 °C	0...+60 °C	–25...+60 °C	–25...+60 °C	–25...+55 °C
Installation	DIN rail	DIN rail	Screw mounting	Screw mounting	Screw mounting, e.g., on SIMATIC ET 200pro system rail
Dimensions (WxHxD) in mm	90 x 125 x 125	32.5 x 125 x 125	120 x 181 (w/o connector) x 60.5	120 x 181 (w/o connector) x 60.5	310 x 135 (w/o connector) x 90
Weight approx.	1.2 kg	0.32 kg	1.1 kg	1.3 kg	2.8 kg
Certification	CE, cULus, CB, GL	CE, cULus	CE, cULus	CE, cULus	CE, ULus508

Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

SITOP

in special design, for special uses



Technical data	two 15-V-outputs	flexible output 3 – 52 V	flat design	
Output voltage / current, type	2 x 15 V/3.5 A, SITOP dual	3...52 V/10 A, SITOP flexi	24 V/5 A, flat design	24 V/10A, flat design
Article No.	6EP1353-0AA00	6EP1353-2BA00	6EP1333-1AL12	6EP1334-1AL12
Rated input voltage	120 – 230 V AC	120/230 V AC	120/230 V AC	120/230 V AC
– Range	93 ... 264 V AC	85...132 V/170...264 V AC	85...132/170...264 V AC	85...132/170...264 V AC
Mains buffering	> 10/40ms (at 120/187V)	> 10 ms (at 93/187V)	> 20 ms (at 93/187 V)	> 20 ms (at 93/187 V)
Rated line frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Rated input current	1.6/1.0 A	2.2/0.9 A	2.2/1.2 A	4/2.5 A
– Inrush current (25 °C)	< 30 A, < 3 ms	< 32 A	< 32 A	< 65 A
– Recommended miniature circuit breaker	10 A charact. C, 16 A charact. B	6 A charact. C	6 A charact. C	10 A charact. C
Rated output voltage	2 x 15 V DC	24 V DC	24 V DC	24 V DC
– Tolerance	± 3 %	± 1 %	± 1 %	± 1 %
– Setting range	14.5...17 V DC	3...52 V DC	22...29 V DC	22...29 V DC
Output current – rated value	2 x 3.5 A	2 – 10 A (max. 120 W)	5 A	10 A
– Derating	from +45 °C (2%/K)	–	–	–
Efficiency at rated values, approx.	80 %	84 % (at 24 V/5 A)	88 %	89 %
Status signaling	No	Yes, and current monitor signal 0 ... 2.5 V	No	No
Parallel switching	Yes	Yes	Yes	Yes
Electronic short-circuit protection	Yes, restart	Yes, constant current	Yes, restart	Yes, restart
Radio interference suppression (EN 55022)	Class A	Class B	Class B	Class B
Supply harmonics limitation (EN 61000-3-2)	No	Yes	No	No
Degree of protection (EN 60529)	IP20	IP20	IP20	IP20
Ambient temperature	0 ...+60 °C	0...+60 °C	0...+60 °C	0...+60 °C
Installation	DIN rail	DIN rail	DIN rail	DIN rail
Dimensions (WxHxD) in mm	75 x 125 x 125	75 x 125 x 125	160 x 130 x 60	160 x 130 x 60
Weight approx.	0.75 kg	0.9 kg	0.6 kg	0.72 kg
Certification	CE, cULus	CE, cULus	CE, cULus	CE, cULus

Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

		new! 	new! 	
Technical data	narrow design	power supplies for charging batteries		
Output voltage/current, type	24 V/5 A, PSU300E	12 V/20 A, PSU3800	24 V/17 A, PSU3800	24 V/30 A, PSU300B
Article No.	6EP1433-0AA00	6EP3424-8UB00-0AY0	6EP3436-8UB00-0AY0	6EP1437-3BA20
Rated input voltage	400 V 3 AC	400 – 500 V 3 AC	400 – 500 V 3 AC	400 – 500 V 3 AC
– Range	320...480 V 3 AC	320...575 V 3 AC	320...575 V 3 AC	320...575 V 3 AC
Mains buffering	> 50 ms (at 400 V)	> 15 ms (at 400 V)	> 15 ms (at 400 V)	> 20 ms (at 400 V)
Rated line frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Rated input current	0.36 A	0.7 – 0.6 A	1.2 – 1.0 A	1.6 – 1.3 A
– Inrush current (25 °C)	< 15 A	< 18 A	< 18 A	< 56 A
– Recommended miniature circuit breaker	6 – 10 A charact. C	6 – 16 A charact. C 3-ph. coupled or 3RV2011-1DA10 or 3RV2711-1DD10	6-16 A charact. C 3-ph. coupled or 3RV2011-1DA10 or 3RV2711-1DD10	10 – 16 A charact. C 3-ph. coupled or 3RV2011-1DA10 or 3RV2711-1DD10
Rated output voltage	24 V DC	12 V DC	24 V DC	24 V DC
– Tolerance	± 3%	± 3%	± 3%	± 3%
– Setting range	24...29 V DC	12...14 V DC	24...28.8 V DC	24...28.8 V DC
Rated output current	5 A	20 A	17 A	30 A
– Derating	–	–	from +60 °C (1.7%/K)	from +60 °C (1,7%/K)
Efficiency at rated values, approx.	90 %	94 %	94 %	93 %
Status signaling	Yes	Yes	Yes	Yes
Parallel switching	No	Yes	Yes	Yes
Electronic short-circuit protection	Yes, restart	Yes, constant current or latching shutdown selectable		
Radio interference suppression (EN 55022)	Class A	Class B	Class B	Class B
Supply harmonics limitation (EN 61000-3-2)	Yes	Yes	Yes	Yes
Degree of protection (EN 60529)	IP20	IP20	IP20	IP20
Ambient temperature	0...+60 °C	–25 °C...+70 °C	–25...+70 °C	–25 °C...+70 °C
Installation	DIN rail	DIN rail	DIN rail	DIN rail
Dimensions (WxHxD) in mm	42 x 125 x 125	70 x 125 x 125	70 x 125 x 125	150 x 125 x 150
Weight approx.	0.6 kg	1.2 kg	1.2 kg	3.4 kg
Certification	CE, cULus	CE, cULus, 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		CE, cULus

Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)