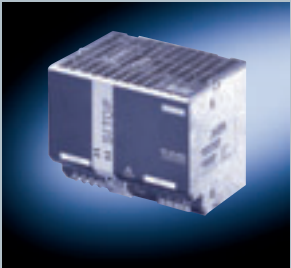


SITOP ordering data

The modular power supply

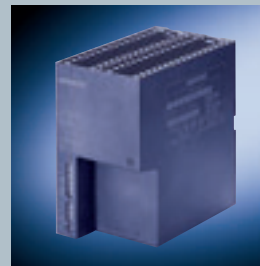


Technical specifications	3-phase ¹⁾		Signaling	Power failure bridging	Redundancy	Monitoring
SITOP	Basic unit 24 V/20 A	Basic unit 24 V/40 A	Signaling module	Buffer module	Redundancy module	Diagnosis module
Order No.	6EP1436-3BA00	6EP1437-3BA00	6EP1961-3BA10	6EP1961-3BA00	6EP1961-3BA20	6EP1961-2BA00
Input voltage rated value – range	3x 400–500 V AC 3x 340 ... 550 V AC	3x 400–500 V AC 3x 340 ... 550 V AC	Contact rating 240 V/6 A AC	24 V DC 24...28.8 V DC	24 V DC 24...28.8 V DC	24 V DC 22...30 V DC
Mains buffering	> 6 ms (at 400 V)	> 6 ms (at 400 V)	Product/Function description Signaling module for lateral snapping onto the basic unit (6EP1xxx-3BA00); automatic contacting; with potential-free signaling contacts for “Output voltage o.k.” and “Operating readiness o.k.”; with signal input for remote ON/OFF switching of the basic unit.	Product/Function description Buffer module for bridging power failures; connected in parallel to basic unit´s (6EP1x3x-3BA00) output; buffering time 800 ms at 5 A or 100 ms at 40 A load current; multiplication through paralleling possible; maximum buffering time 3 s.	Product/Function description Module for redundancy mode. Decoupling of two basic units 5 A to 20 A or of one basic unit 40 A per redundancy module. Isolated relay contact and green LEDs for signaling “Feed-in 1 and 2 o.k.”, operating point settable from 20 to 25 V.	Product/Function description Diagnosis module for monitoring up to four 24 V load feeders; selective disabling of faulty feeders, nominal current of between 2 and 10 A individually specifiable; with common signal contact and LEDs in multiple colors; universal diagnosis module for all power supplies.
Line frequency rated value	50/60 Hz	50/60 Hz				
Input current rated value – inrush current (25 °C / 77 °F) – required protection in the supply cable	1.1 A (at 400 V) < 35 A 3-ph. coupled circuit-breaker 6–16 A Char. C or 3RV1021-1DA10	2.2 A (at 400 V) < 70 A				
Output voltage rated value – tolerance – setting range	24 V DC ± 3% 24 ... 28.8 V DC	24 V DC ± 3% 24 ... 28.8 V DC				
Output current rated value	20 A	40 A	Not applicable	40 A	40 A (total output current)	4 x 10 A
Efficiency at rated values approx.	90 %	90 %	Not applicable	Not applicable	97 %	97 %
Parallel switch for higher perf.	Yes, output characteristics switchable to parallel operation		Not applicable	Yes	No	No
Electronic short-circuit protection	Yes, selectable constant current or latching shutdown		Not applicable	Yes	No	Yes
RI specification (EN 55022)	Class B	Class B	Class B	Class B	Class B	Class B
Line harmonic limitation to EN 61000-3-2	Yes	Yes	Not applicable	Not applicable	Not applicable	Not applicable
Degree of prot. (EN 60529)	IP 20	IP 20	IP 20	IP 20	IP 20	IP 20
Ambient temperature	0 ... +60 °C / 32 ... 140 °F	0 ... +60 °C / 32 ... 140 °F	0 ... +60 °C / 32 ... 140 °F	0 ... +60 °C / 32 ... 140 °F	0 ... +60 °C / 32 ... 140 °F	0 ... +60 °C / 32 ... 140 °F
Dimensions (W x H x D) in mm / inches	160 x 125 x 125 / 6.3 x 4.92 x 4.92	240 x 125 x 125 / 9.44 x 4.92 x 4.92	25 x 125 x 125 / 0.98 x 4.92 x 4.92	70 x 125 x 125 / 2.76 x 4.92 x 4.92	70 x 125 x 125 / 2.76 x 4.92 x 4.92	72 x 90 x ca. 90 / 2.84 x 3.54 x appr. 3.54
Weight approx.	2.0 kg / 4.4 lbs	3.2 kg / 7.1 lbs	0.15 kg / 0.33 lbs	1.2 kg / 2.65 lbs	0.8 kg / 1.76 lbs	0.4 kg / 0.88 lbs
Approvals	UL, cUL, CE	UL, cUL, CE	UL, cUL, CE	UL, cUL, CE	UL, cUL, CE	UL, cUL, CE

¹⁾ Power supply units with output currents of 5 A and 10 A connectable to 2 phases of a 3-phase supply system: 6EP1333-3BA00 and 6EP1334-3BA00

SITOP ordering data

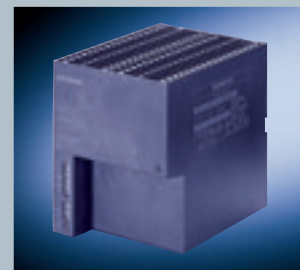
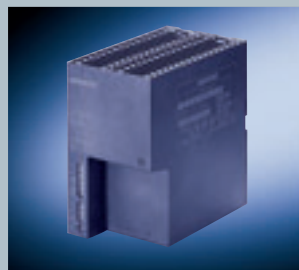
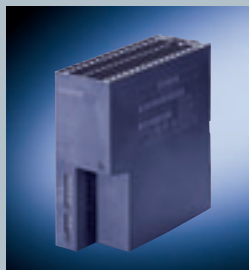
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Technical specifications	Flat Design		UL Class 2	Protection IP 65	1-ph., dual output	1-ph., variable output
SITOP	24 V/5 A	24 V/10 A	24 V/3.8 A	ET 200X Design 24 V/10 A	2 x 15 V/2.5 A	3 ... 52 V/10 A
Order No.	6EP1333-1AL12	6EP1334-1AL12	6EP1332-2BA00	6EP1334-2CA00	6EP1353-0AA00	6EP1353-2BA00
Input voltage rated value – range	120/230 V AC 85 ... 132 V / 170 ... 264 V	120/230 V AC 85 ... 132 V / 170 ... 264 V	120/230 V AC 93 ... 132 V / 187 ... 264 V	120/230 V AC 93 ... 132 V / 187 ... 264 V	120–230 V AC 93 ... 264 V	120/230 V AC 85 ... 132 V / 170 ... 264 V
Mains buffering	> 20 ms (at 93/187 V)	> 20 ms (at 93/187 V)	> 10 ms (at 93/187 V)	> 20 ms (at 93/187 V)	> 10/40 ms (at 120/187 V)	> 10 ms (93/187 V)
Line frequency rated value	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Input current rated value – inrush current (25 °C / 77 °F) – recommended protection in the supply cable	2.2/1.2A < 32 A from 6 A charac. C	4/2.5 A < 65 A from 10 A charac. C	1.8/0.7 A < 32 A from 6 A charac. C	4.3/2.6 A < 65 A from 16 A charac. C	1.9–1.15 A < 30 A from 10 A char. C	2.2/0.9 A < 32 A 6 A char. C
Output voltage rated value – tolerance – setting range	24 V DC ± 1% 22 ... 29 V	24 V DC ± 1% 22 ... 29 V	24 V DC ± 1% 22.8 ... 26.4 V	24 V DC ± 3% 22.8 ... 25.2 V DC	2 x 15 V DC ± 2% 14.5 ... 17 V DC	3 ... 52 V DC ± 1% 3 ... 52 V DC
Output current rated value	5 A	10 A	3.8 A	10 A (up to 40 °C)	2.5 A (3.5 up to 45 °C)	10 A
Efficiency at rated values approx.	88%	89%	87 %	87%	80%	84% (24 V/5 A)
Parallel switch for higher perf.	Yes	Yes	Yes	Yes	Yes	Yes
Electronic short-circuit protection	Yes	Yes	Yes	Yes	Yes	Yes
RI specification (EN 55022)	Class B	Class B	Class B	Class A	Class A	Class B
Degree of prot. (EN 60529)	IP 20	IP 20	IP 20	IP 65	IP 20	IP 20
Ambient temperature	0 ... +60 °C / 32 ... 140 °F	0 ... +60 °C / 32 ... 140 °F	0 ... +60 °C / 32 ... 140 °F	–25 ... +55 °C / –13 ... 131 °F	0 ... +60 °C / 32 ... 140 °F	0 ... +60 °C / 32 ... 140 °F
Dimensions (W x H x D) in mm / inches	160 x 130 x 60 / 6.3 x 5.1 x 2.36	160 x 130 x 60 / 6.3 x 5.1 x 2.36	75 x 125 x 125 / 2.95 x 4.92 x 4.92	140 x 270 x 126 / 5.51 x 10.63 x 4.96	75 x 125 x 125 / 2.95 x 4.92 x 4.92	75 x 125 x 125 / 2.95 x 4.92 x 4.92
Weight approx.	0.6 kg / 1.32 lbs	0.72 kg / 1.6 lbs	0.75 kg / 1.7 lbs	1.7 kg / 3.7 lbs	0.75 kg / 1.7 lbs	0.9 kg / 2 lbs
Approvals	UL, cUL, CE	UL, cUL, CE	UL, cUL, CE	UL, cUL, CE	UL, cUL, CE	UL, cUL, CE

SITOP ordering data

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Technical specifications

1-phase

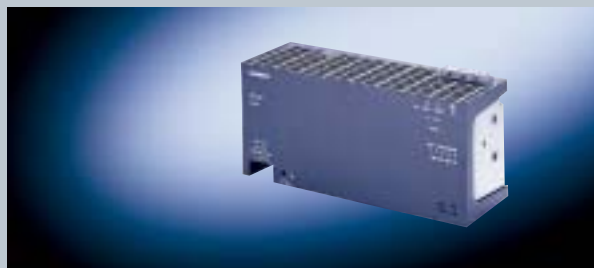
SITOP	24 V/0.5 A	24 V/2 A	24 V/5 A	24 V/10 A	24 V/20 A
Order No.	6EP1331-2BA10	6EP1331-2BA00	6EP1333-2BA00	6EP1334-2BA00	6EP1336-2BA00
Input voltage rated value – range	120–230 V ¹⁾ AC 93...264 V AC	120/230 V AC 93...132 V/ 187...264 V AC	AC 120/230 V 93 ... 132 V 187 ... 264 V AC	AC 120/230 V 93 ... 132 V / 187 ... 264 V	AC 120/230 V 93 ... 132 V / 187 ... 264 V
Mains buffering	> 10 ms (at 230 V)	> 10 ms (at 93/187 V)	> 10 ms (at 93/187 V)	> 10 ms (at 93/187 V)	> 10 ms (at 93/187 V)
Line frequency rated value	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Input current rated value – inrush current (25 °C / 77 °F) – recommended protection in the supply cable	0.22–0.13 A < 23 A from 3 A Char. C	0.9/0.6 A < 14 A from 3 A Char. C	2.2/0.9 A < 32 A from 6 A chacteristic C	5.5/2.1 A < 65 A from 10 A chacteristic C	8.0/3.3 A < 81 A from 16 A chacteristic C
Output voltage rated value – tolerance – setting range	24 V DC ± 3 % —	24 V DC ± 3 % 22.8 ... 26.4 V DC	24 V DC ± 3 % 22.8 ... 26.4 V DC	24 V DC ± 3 % 22.8 ... 28.8 V DC	24 V DC ± 3 % 22.8 ... 26.4 V DC
Output current rated value	0.5 A	2 A	5 A	10 A	20 A
Efficiency at rated values approx.	74%	82%	87%	89%	87%
Parallel switch for higher perf.	No	Yes	Yes	Yes	Yes
RI specification (EN 55022)	Class B	Class B	Class B	Class B	Class B
Line harmonic limitation to EN 61000-3-2	Not applicable	Not applicable	Yes	Yes	Yes
Degree of prot. (EN 60529)	IP 20	IP 20	IP 20	IP 20	IP 20
Ambient temperature	–20 ... +70 °C / –4 ... 158 °F	0 ... +60 °C / 32 ... 140 °F	0 ... +60 °C / 32 ... 140 °F	0 ... +60 °C / 32 ... 140 °F	0 ... +55 °C / 32 ... 131 °F
Dimensions (W x H x D) in mm	22.5 x 80 x 91 / 8.86 x 3.15 x 3.58	50 x 125 x 125 / 1.97 x 4.92 x 4.92	75 x 125 x 125 / 2.95 x 4.92 x 4.92	100 x 125 x 135 / 3.94 x 4.92 x 5.31	280 x 125 x 92 ²⁾ / 11.03 x 4.92 x 3.63
Weight approx.	0.11 kg / 0.24 lbs	0.4 kg / 0.9 lbs	0.75 kg / 1.7 lbs	1.1 kg / 2.4 lbs	2.4 kg / 5.3 lbs
Approvals	UL, cUL, CE	UL, cUL, CE	UL, cUL, CE	UL, cUL, CE	UL, cUL, CE

¹⁾ With input voltage 48–220 V DC, Order No. 6EP1731-2BA00

²⁾For minimum unit area requirements in the switching cabinet backplane, a mounting bracket is available.
Order No. 6EP1971-2BA00; Dimension: W x H x D: mm / inches 100 x 150 x 320 / 4 x 5.9 x 12.6. Appr. wt.: 0.9 kg / 1.98 lbs

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Technical specifications

Three Phase

SITOP power	24 V/10 A	24 V/20 A	24 V/40 A
Order No.	6EP1434-2BA00	6EP1436-2BA00	6EP1437-2BA10
Input voltage rated value – range	3 AC 400-500 V 360 ... 550 V ¹⁾	3 AC 400–500 V 360 ... 550 V ¹⁾	3 AC 400–500 V 360 ... 550 V ¹⁾
Mains buffering	> 6 ms (at 360 V)	> 3 ms (at 360 V)	> 3 ms (at 360 V)
Line frequency rated value	50/60 Hz	50/60 Hz	50/60 Hz
Input current rated value – inrush current (25 °C / 77 °F) – required protection in the supply cable	0.65 A (400 V) < 25 A 3-ph. coupled circuit breaker characteristic C max. 25 A or 3VU1300-0MJ00 or 3RV1021-1DA10	1.2 A (400 V) < 25 A 3-ph. coupled circuit breaker characteristic C max. 25 A or 3VU1300-0MJ00 or 3RV1021-1DA10	1.9 A (400 V) < 25 A 3-ph. coupled circuit breaker characteristic C max. 25 A or 3VU1300-0MJ00 or 3RV1021-1DA10
Output voltage rated value – tolerance – setting range	24 V DC ± 3 % 22.8 ... 26.4 V DC	24 V DC ± 3 % 22.8 ... 26.4 V DC	24 V DC ± 3 % 22.8 ... 26.4 V DC
Output current rated value	10 A	20 A	40 A
Efficiency at rated values approx.	89%	89%	90 %
Parallel switch for higher perf.	Yes	Yes	Yes
RFI specification (EN 55022)	Class B	Class B	Class B
Line harmonic limitation to EN 61000-3-2	Yes	Yes	Yes
Degree of prot. (EN 60529)	IP 20	IP 20	IP 20
Ambient temperature	0 ... +55 °C / 32 ... 131 °F	0 ... +55 °C / 32 ... 131 °F	0 ... +55 °C / 32 ... 131 °F
Dimensions (W x H x D) in mm / inches	280 x 125 x 92 ²⁾ / 11.03 x 4.92 x 3.63	280 x 125 x 92 ²⁾ / 11.03 x 4.92 x 3.63	280 x 180 x 92 ²⁾ / 11.03 x 4.92 x 3.63
Approx. weight	2 kg / 4.4 lbs	2 kg / 4.4 lbs	3.6 kg / 8.0 lbs

¹⁾ 340...360 V permissible for max. 2 sec.

The information provided in this brochure contains merely general descriptions or characteristics of performance which in actual case of use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract.

²⁾For minimum unit area requirements in the switching cabinet backplane, a mounting bracket is available.
Order No. 6EP1971-2BA00; Dimension: W x H x D: mm / inches 100 x 150 x 320 / 4 x 5.9 x 12.6. Appr. wt.: 0.9 kg / 1.98 lbs