

SITOP Power Supplies

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Portfolio overview SITOP Power Supplies

Advanced		Standard		Basic		SIMATIC design	DC/DC converter	Special designs
SITOP PSU8600 The power supply system with TIA integration and open communication up to the Cloud	SITOP PSU8200 The technology power supply for demanding solutions	SITOP PSU6200 The all-around power supply for a wide range of applications	SITOP smart The high-performance power supply applications	SITOP lite The cost-effective basic power supply	LOGO!Power The flat power supply for distribution boards	SITOP in SIMATIC design The optimal power supply for SIMATIC S7 and more	SITOP DC/DC converter Stable supply despite fluctuating DC voltage	Special designs Equipped for special tasks and conditions

... individual extendable to all-round protection

SITOP Redundancy modules



SITOP Selectivity modules



SITOP Buffer module



SITOP DC UPS with capacitors



with battery modules



Failure of a power supply

Overload in 24 V circuit

Up to seconds

Power failure on the input side
Up to minutes

Up to hours

SITOP PSU6200 The all-round power supply for a wide variety of applications



FB for STEP 7
Faceplate for WinCC

Technology overview

Input	AC: 120 – 230 V (85...264 V) DC: 1,3 A – 2,5 A: 110 V – 275 V/3,7 – 7 A: 99 V – 275 V/10 A – 20 A: 85 V – 275 V 3 AC: 400-500 V (323 ... 576 V)
Output	24 V DC: 1,3 A; 2,5 A; 3,7 A NEC Class 2 – 24 V DC: 5 A; 10 A; 20 A 12 V DC: 2 A, 7 A, 12 A – 48 V DC: 5 A, 10 A 3 AC: DC 24 V/ 5, 10, 20 A, 40 A – 48 V: 5 A, 10 A, 20 A
Efficiency	Up to 96,6%
Overload behavior	Extra power 150% Continuous output power 120%
Status signaling	Diagnostics monitors signal the operating status, power utilization and service life
Temperature range	-25 ... +70 ° C
Certifications	

- Diagnostics monitor LED display for DC OK, utilization and operating hours
- Diagnostics interface for provision of important operating parameters (e.g. power, voltage, overload, etc.)
- High efficiency up to 96.6%
- Slimline design for direct side-by-side mounting without lateral clearance requirements
- Push-in terminals
- Integrated product family with comprehensive range of products for a wide range of requirements
- "Coated" versions available for use in extreme environmental conditions
- Constant current up to 15 V supply voltage (24 V variants). Power supply not switched off immediately in the event of overload
- Rugged AC input, active PFC for optimal protection of the input circuit
- DC capability/wide range input
- Enhanced versatility and reliability






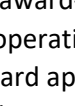
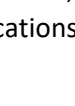








* in preparation



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SITOP PSU6200 – The all-rounder power supply for a wide variety of applications

	12 V DC/2 A, PSU6200	120 – 230 V AC/120 – 240 V DC (85 ... 264 V AC/110 ... 275 V DC)	25 x 100 x 88	6EP3321-7S800-0AX0	<ul style="list-style-type: none"> • Robust wide range input AC and DC, 3-phase devices also applicable for continuous operation with 2 phases • Space-saving, narrow design • High efficiency up to 96% • High overload capacity thanks to Extra-Power ($1.5 \times I_{nom}$ for 5 s) and constant current behavior • Permanent overload capacity ($1.2 \times I_{nom}$) up to 45 °C ambient temperature • Push-in terminals for fast connection • From 3.7 A: LED and signaling contact "DC OK" • From 24 V/10 A and 48 V/5 A: Diagnostics monitor for overload and service life via LEDs Diagnostics interface signals all the relevant device and operating data. Active PFC for low reactive current component • Expandable with all SITOP add-on modules
	24 V DC/1.3 A, PSU6200		25 x 100 x 88	6EP3331-7S800-0AX0	
	24 V DC/2.5 A, PSU6200		40 x 100 x 88	6EP3332-7S800-0AX0	
	12 V DC/7 A, PSU6200	120 – 230 V AC/120 – 240 V DC (85 ... 264 V AC/99 ... 275 V DC)	35 x 135 x 125	6EP3323-7S800-0AX0	
	24 V DC/3.7 A, NEC Class2, PSU6200		35 x 135 x 125	6EP3333-7LB00-0AX0	
	24 V DC/5 A, PSU6200		35 x 135 x 125	6EP3333-7S800-0AX0	
	12 V DC/12 A, PSU6200	120 – 230 V AC/110 – 240 V DC (85 ... 264 V AC/85 ... 275 V DC)	45 x 135 x 125	6EP3324-7S800-3AX0	
	24 V DC/10 A, PSU6200		45 x 135 x 125	6EP3334-7S800-3AX0	
	48 V DC/5 A, PSU6200 NEW	400 – 500 V 3 AC (323 ... 576 V 3 AC/450 ... 600 V DC)	45 x 135 x 125	6EP3344-7S800-3AX0	
	24 V DC/20 A, PSU6200		70 x 135 x 125	6EP3336-7S800-3AX0	
	24 V DC/5 A, PSU6200 NEW		35 x 135 x 125	6EP3433-7S800-0AX0	
	24 V DC/10 A, PSU6200 NEW		45 x 135 x 155	6EP3434-7S800-3AX0	
	24 V DC/20 A, PSU6200 NEW		70 x 135 x 155	6EP3436-7S800-3AX0	

The all-around power supply for a wide range of applications - now up to 960 watts.

With award-winning industrial design, space-saving width, optimized terminals, comprehensive diagnostic options, and high operational reliability: SITOP PSU6200 is the extremely high-performance power supply for 12, 24 and 48 V standard applications. The power supply units offer comprehensive functions and features for focused diagnostics, fast installation, and dependable operation. The new 3-phase power supplies 24 V/40 A and 48 V/20 A now also supply applications with up to 960 watts nominal power.



SITOP PSU6200, 1-phase, 12 V



SITOP PSU6200, 1-phase, 24 V



SITOP PSU6200, 1-phase, 48 V



SITOP PSU6200, Ex, 1-phase, 24 V



SITOP PSU6200, 3-phase, 24 V



SITOP PSU6200, Ex, 3-phase, 24 V





SITOP PSU6200/1AC/12VDC/2A

SITOP PSU6200 12 V/2 A Stabilized power supply Input: 120 - 230 V AC, (120 - 240 V DC) Output: 12 V DC/2 A

Input	
type of the power supply network	1-phase AC or DC
supply voltage at AC	
<ul style="list-style-type: none"> • minimum rated value • maximum rated value • initial value • full-scale value 	120 V 240 V 85 V 264 V
supply voltage	
<ul style="list-style-type: none"> • at DC 	120 ... 240 V
input voltage	
<ul style="list-style-type: none"> • at DC 	110 ... 275 V
design of input wide range input	Yes
overvoltage overload capability	300 V AC for 30 s
operating condition of the mains buffering	at $V_{in} = 230\text{ V}$
buffering time for rated value of the output current in the event of power failure minimum	150 ms
operating condition of the mains buffering	at $V_{in} = 230\text{ V}$
line frequency	
<ul style="list-style-type: none"> • 1 rated value • 2 rated value 	50 Hz 60 Hz
line frequency	47 ... 63 Hz
input current	
<ul style="list-style-type: none"> • at rated input voltage 120 V • at rated input voltage 230 V 	0.45 A 0.25 A
current limitation of inrush current at 25 °C maximum	32 A
fuse protection type	3.15 A
<ul style="list-style-type: none"> • in the feeder 	Circuit breaker from 4 A characteristic C/6 A characteristic B to 16 A characteristic C or circuit breaker 3RV2011-1EA10 (setting 4 A) or 3RV2711-1ED10 (UL 489)
Output	
voltage curve at output	Controlled, isolated DC voltage
number of outputs	1
output voltage at DC rated value	12 V
output voltage	
<ul style="list-style-type: none"> • at output 1 at DC rated value 	12 V
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
<ul style="list-style-type: none"> • on slow fluctuation of input voltage • on slow fluctuation of ohm loading 	0.3 % 0.3 %
residual ripple	



SITOP PSU6200/1AC/24VDC/1.3A

SITOP PSU6200 24 V/1.3 A Stabilized power supply Input: 120 - 230 V AC, (120 - 240 V DC) Output: 24 V DC/1.3 A

Input	
type of the power supply network	1-phase AC or DC
supply voltage at AC	
<ul style="list-style-type: none"> ● minimum rated value ● maximum rated value ● initial value ● full-scale value 	120 V 240 V 85 V 264 V
supply voltage	
<ul style="list-style-type: none"> ● at DC 	120 ... 240 V
input voltage	
<ul style="list-style-type: none"> ● at DC 	110 ... 275 V
design of input wide range input	Yes
overvoltage overload capability	300 V AC for 30 s
operating condition of the mains buffering	at $V_{in} = 230 \text{ V}$
buffering time for rated value of the output current in the event of power failure minimum	150 ms
operating condition of the mains buffering	at $V_{in} = 230 \text{ V}$
line frequency	
<ul style="list-style-type: none"> ● 1 rated value ● 2 rated value 	50 Hz 60 Hz
line frequency	47 ... 63 Hz
input current	
<ul style="list-style-type: none"> ● at rated input voltage 120 V ● at rated input voltage 230 V 	0.6 A 0.3 A
current limitation of inrush current at 25 °C maximum	32 A
fuse protection type	3.15 A
<ul style="list-style-type: none"> ● in the feeder 	Circuit breaker from 4 A characteristic C/6 A characteristic B to 16 A characteristic C or circuit breaker 3RV2011-1EA10 (setting 4 A) or 3RV2711-1ED10 (UL 489)
Output	
voltage curve at output	Controlled, isolated DC voltage
number of outputs	1
output voltage at DC rated value	24 V
output voltage	
<ul style="list-style-type: none"> ● at output 1 at DC rated value 	24 V
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
<ul style="list-style-type: none"> ● on slow fluctuation of input voltage ● on slow fluctuation of ohm loading 	0.1 % 0.1 %
residual ripple	



SITOP PSU6200/1AC/24VDC/2.5A

SITOP PSU6200 24 V/2.5 A Stabilized power supply Input: 120 - 230 V AC, (120 - 240 V DC) Output: 24 V DC/2.5 A

Input	
type of the power supply network	1-phase AC or DC
supply voltage at AC	
• minimum rated value	120 V
• maximum rated value	240 V
• initial value	85 V
• full-scale value	264 V
supply voltage	
• at DC	120 ... 240 V
input voltage	
• at DC	110 ... 275 V
design of input wide range input	Yes
overvoltage overload capability	300 V AC for 30 s
operating condition of the mains buffering	at $V_{in} = 230\text{ V}$
buffering time for rated value of the output current in the event of power failure minimum	150 ms
operating condition of the mains buffering	at $V_{in} = 230\text{ V}$
line frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
line frequency	47 ... 63 Hz
input current	
• at rated input voltage 120 V	1.1 A
• at rated input voltage 230 V	0.6 A
current limitation of inrush current at 25 °C maximum	32 A
fuse protection type	3.15 A
• in the feeder	Circuit breaker from 4 A characteristic C/6 A characteristic B to 16 A characteristic C or circuit breaker 3RV2011-1EA10 (setting 4 A) or 3RV2711-1ED10 (UL 489)
Output	
voltage curve at output	Controlled, isolated DC voltage
number of outputs	1
output voltage at DC rated value	24 V
output voltage	
• at output 1 at DC rated value	24 V
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
• on slow fluctuation of input voltage	0.1 %
• on slow fluctuation of ohm loading	0.1 %
residual ripple	



SITOP PSU6200/1AC/12VDC/7A

SITOP PSU6200 12V/7 A Stabilized power supply Input: 120 - 230 V AC, (120 - 240 V DC) Output: 12 V DC/ 7 A

Input	
type of the power supply network	1-phase AC or DC
supply voltage at AC	
• minimum rated value	120 V
• maximum rated value	230 V
• initial value	85 V
• full-scale value	264 V
supply voltage	
• at DC	120 ... 240 V
input voltage	
• at DC	99 ... 275 V
design of input wide range input	Yes
overvoltage overload capability	300 V AC for 30 s
operating condition of the mains buffering	at $V_{in} = 230 \text{ V}$
buffering time for rated value of the output current in the event of power failure minimum	90 ms
operating condition of the mains buffering	at $V_{in} = 230 \text{ V}$
line frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
line frequency	47 ... 63 Hz
input current	
• at rated input voltage 120 V	1.4 A
• at rated input voltage 230 V	0.8 A
current limitation of inrush current at 25 °C maximum	29 A
fuse protection type	5 A
• in the feeder	Circuit breaker 4 A characteristic C or 6 A characteristic B/C or circuit breaker 3RV2011-1EA10 (setting 4 A) or 3RV2711-1ED10 (UL 489)
Output	
voltage curve at output	Controlled, isolated DC voltage
number of outputs	1
output voltage at DC rated value	12 V
output voltage	
• at output 1 at DC rated value	12 V
relative overall tolerance of the voltage	3 %
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	30 mV



SITOP PSU6200/1AC/24VDC/3.7A/NECCLASS2

SITOP PSU6200 3.7 A NEC class II Stabilized power supply Input: 120 - 230 V AC, (120 - 240 V DC) Output: 24 V DC/3.7 A

Input	
type of the power supply network	1-phase AC or DC
supply voltage at AC	
• minimum rated value	120 V
• maximum rated value	240 V
• initial value	85 V
• full-scale value	264 V
supply voltage	
• at DC	120 ... 240 V
input voltage	
• at DC	99 ... 275 V
design of input wide range input	Yes
overvoltage overload capability	300 V AC for 30 s
operating condition of the mains buffering	at $V_{in} = 230$ V
buffering time for rated value of the output current in the event of power failure minimum	90 ms
operating condition of the mains buffering	at $V_{in} = 230$ V
line frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
line frequency	47 ... 63 Hz
input current	
• at rated input voltage 120 V	1.5 A
• at rated input voltage 230 V	0.9 A
current limitation of inrush current at 25 °C maximum	29 A
fuse protection type	3.15 A
• in the feeder	Circuit breaker 4 A characteristic C or 6 A characteristic B/C or circuit breaker 3RV2011-1EA10 (setting 4 A) or 3RV2711-1ED10 (UL 489)
Output	
voltage curve at output	Controlled, isolated DC voltage
number of outputs	1
output voltage at DC rated value	24 V
output voltage	
• at output 1 at DC rated value	24 V
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
• on slow fluctuation of input voltage	0.2 %
• on slow fluctuation of ohm loading	0.3 %
residual ripple	
• maximum	30 mV



SITOP PSU6200/1AC/24VDC/5A

SITOP PSU6200 24 V/5 A Stabilized power supply Input: 120 - 230 V AC, (120 - 240 V DC) Output: 24 V DC/5 A

Input	
type of the power supply network	1-phase AC or DC
supply voltage at AC	
• minimum rated value	120 V
• maximum rated value	230 V
• initial value	85 V
• full-scale value	264 V
supply voltage	
• at DC	120 ... 240 V
input voltage	
• at DC	99 ... 275 V
design of input wide range input	Yes
overvoltage overload capability	300 V AC for 30 s
operating condition of the mains buffering	at $V_{in} = 230\text{ V}$
buffering time for rated value of the output current in the event of power failure minimum	80 ms
operating condition of the mains buffering	at $V_{in} = 230\text{ V}$
line frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
line frequency	47 ... 63 Hz
input current	
• at rated input voltage 120 V	1.9 A
• at rated input voltage 230 V	1.1 A
current limitation of inrush current at 25 °C maximum	29 A
fuse protection type	3.15 A
• in the feeder	Circuit breaker 4 A characteristic C or 6 A characteristic B/C or circuit breaker 3RV2011-1EA10 (setting 4 A) or 3RV2711-1ED10 (UL 489)
Output	
voltage curve at output	Controlled, isolated DC voltage
number of outputs	1
output voltage at DC rated value	24 V
output voltage	
• at output 1 at DC rated value	24 V
relative overall tolerance of the voltage	3 %
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	30 mV



SITOP PSU6200/1AC/12VDC/12A

SITOP PSU6200 12 V/12 A Stabilized power supply Input: 120 - 230 V AC, (120 - 240 V DC) Output: 12 V DC/12 A with diagnostics interface

Input	
type of the power supply network	1-phase AC or DC
supply voltage at AC	
• minimum rated value	120 V
• maximum rated value	230 V
• initial value	85 V
• full-scale value	264 V
supply voltage	
• at DC	110 ... 240 V
input voltage	
• at DC	85 ... 275 V
design of input wide range input	Yes
overvoltage overload capability	300 V AC for 30 s
operating condition of the mains buffering	at $V_{in} = 230 \text{ V}$
buffering time for rated value of the output current in the event of power failure minimum	70 ms
operating condition of the mains buffering	at $V_{in} = 230 \text{ V}$
line frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
line frequency	47 ... 63 Hz
input current	
• at rated input voltage 120 V	1.4 A
• at rated input voltage 230 V	0.8 A
current limitation of inrush current at 25 °C maximum	6 A
fuse protection type	5 A
• in the feeder	Circuit breaker from 4 A characteristic C/6 A characteristic B to 10 A characteristic C or circuit breaker 3RV2011-1EA10 (setting 4 A) or 3RV2711-1ED10 (UL 489)
Output	
voltage curve at output	Controlled, isolated DC voltage
number of outputs	1
output voltage at DC rated value	12 V
output voltage	
• at output 1 at DC rated value	12 V
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
• on slow fluctuation of input voltage	0.1 %
• on slow fluctuation of ohm loading	0.1 %
residual ripple	



SITOP PSU6200/1AC/24VDC/10A

SITOP PSU6200 24 V/10 A stabilized power supply input: 120 - 230 V AC (110 - 240 V DC) output: 24 V / 10 A DC with diagnostic interface

Input	
type of the power supply network	1-phase AC or DC
supply voltage at AC	
• minimum rated value	120 V
• maximum rated value	230 V
• initial value	85 V
• full-scale value	264 V
supply voltage	
• at DC	110 ... 240 V
input voltage	
• at DC	85 ... 275 V
design of input wide range input	Yes
overvoltage overload capability	300 V AC for 30 s
operating condition of the mains buffering	at $V_{in} = 230 \text{ V}$
buffering time for rated value of the output current in the event of power failure minimum	45 ms
operating condition of the mains buffering	at $V_{in} = 230 \text{ V}$
line frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
line frequency	47 ... 63 Hz
input current	
• at rated input voltage 120 V	2.2 A
• at rated input voltage 230 V	1.2 A
current limitation of inrush current at 25 °C maximum	6 A
fuse protection type	5 A
• in the feeder	Circuit breaker from 4 A characteristic C/6 A characteristic B to 10 A characteristic C or circuit breaker 3RV2011-1EA10 (setting 4 A) or 3RV2711-1ED10 (UL 489)
Output	
voltage curve at output	Controlled, isolated DC voltage
number of outputs	1
output voltage at DC rated value	24 V
output voltage	
• at output 1 at DC rated value	24 V
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
• on slow fluctuation of input voltage	0.1 %
• on slow fluctuation of ohm loading	0.1 %
residual ripple	



SITOP PSU6200/1AC/48VDC/5A

SITOP PSU6200 5 A stabilized power supply input: 120/230 V AC (110-240 V DC) output: 48 V DC/5 A with diagnostic interface

Input	
type of the power supply network	1-phase AC or DC
supply voltage at AC	
• minimum rated value	120 V
• maximum rated value	240 V
• initial value	85 V
• full-scale value	264 V
supply voltage	
• at DC	110 ... 240 V
input voltage	
• at DC	85 ... 275 V
design of input wide range input	Yes
overvoltage overload capability	300 V AC for 30 s
operating condition of the mains buffering	at $V_{in} = 230 \text{ V}$
buffering time for rated value of the output current in the event of power failure minimum	46 ms
operating condition of the mains buffering	at $V_{in} = 230 \text{ V}$
line frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
line frequency	47 ... 63 Hz
input current	
• at rated input voltage 120 V	2.2 A
• at rated input voltage 230 V	1.2 A
current limitation of inrush current at 25 °C maximum	6 A
fuse protection type	5 A
• in the feeder	Circuit breaker from 4 A characteristic C/6 A characteristic B to 10 A characteristic C or circuit breaker 3RV2011-1EA10 (setting 4 A) or 3RV2711-1ED10 (UL 489)
Output	
voltage curve at output	Controlled, isolated DC voltage
number of outputs	1
output voltage at DC rated value	48 V
output voltage	
• at output 1 at DC rated value	48 V
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
• on slow fluctuation of input voltage	0.1 %
• on slow fluctuation of ohm loading	0.1 %
residual ripple	



SITOP PSU6200/1AC/24VDC/20A

SITOP PSU6200 24 V/20 A stabilized power supply input: 120 - 230 V AC (110 - 240 V DC) output: 24 V DC/20 A with diagnostic interface

Input	
type of the power supply network	1-phase AC or DC
supply voltage at AC	
<ul style="list-style-type: none"> ● minimum rated value ● maximum rated value ● initial value ● full-scale value 	120 V 230 V 85 V 264 V
supply voltage	
<ul style="list-style-type: none"> ● at DC 	110 ... 240 V
input voltage	
<ul style="list-style-type: none"> ● at DC 	85 ... 275 V
design of input wide range input	Yes
overvoltage overload capability	300 V AC for 30 s
operating condition of the mains buffering	at $V_{in} = 230 \text{ V}$
buffering time for rated value of the output current in the event of power failure minimum	25 ms
operating condition of the mains buffering	at $V_{in} = 230 \text{ V}$
line frequency	
<ul style="list-style-type: none"> ● 1 rated value ● 2 rated value 	50 Hz 60 Hz
line frequency	47 ... 63 Hz
input current	
<ul style="list-style-type: none"> ● at rated input voltage 120 V ● at rated input voltage 230 V 	4.3 A 2.3 A
current limitation of inrush current at 25 °C maximum	12 A
fuse protection type	10 A
<ul style="list-style-type: none"> ● in the feeder 	Circuit breaker from 6 A characteristic B to 16 A characteristic C or circuit breaker 3RV2011-1HA10 (setting 8A) or 3RV2711-1HD10 (UL 489)
Output	
voltage curve at output	Controlled, isolated DC voltage
number of outputs	1
output voltage at DC rated value	24 V
output voltage	
<ul style="list-style-type: none"> ● at output 1 at DC rated value 	24 V
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
<ul style="list-style-type: none"> ● on slow fluctuation of input voltage ● on slow fluctuation of ohm loading 	0.2 % 0.2 %
residual ripple	



SITOP PSU6200/3AC/24VDC/5A

SITOP PSU6200 24 V/5 A stabilized power supply input: 400 - 500 V AC
output: 24 V DC/5 A

Input	
type of the power supply network	3-phase AC or DC
supply voltage at AC	
• minimum rated value	400 V
• maximum rated value	500 V
• initial value	323 V
• full-scale value	576 V
input voltage	
• at DC	450 ... 600 V
operating condition of the mains buffering	at $V_{in} = 400$ V
buffering time for rated value of the output current in the event of power failure minimum	20 ms
operating condition of the mains buffering	at $V_{in} = 400$ V
line frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
line frequency	47 ... 63 Hz
input current	
• at rated input voltage 400 V	0.33 A
• at rated input voltage 500 V	0.28 A
current limitation of inrush current at 25 °C maximum	22 A
fuse protection type	
• in the feeder	three-poled coupled circuit breaker from 4 A characteristic C to 10 A characteristic C or circuit breaker 3RV2011-1EA10 (setting 4 A) or 3RV2711-1ED10 (UL 489)
Output	
voltage curve at output	Controlled, isolated DC voltage
number of outputs	1
output voltage at DC rated value	24 V
output voltage	
• at output 1 at DC rated value	24 V
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
• on slow fluctuation of input voltage	0.6 %
• on slow fluctuation of ohm loading	0.6 %
residual ripple	
• maximum	30 mV
• typical	20 mV
voltage peak	
• maximum	30 mV



SITOP PSU6200/3AC/24VDC/10A

SITOP PSU6200 24 V/10 A stabilized power supply input: 400 - 500 V AC
output: 24 V / 10 A DC with diagnostics interface

Input	
type of the power supply network	3-phase AC or DC
supply voltage at AC	
• minimum rated value	400 V
• maximum rated value	500 V
• initial value	323 V
• full-scale value	576 V
input voltage	
• at DC	450 ... 600 V
operating condition of the mains buffering	at $V_{in} = 400 \text{ V}$
buffering time for rated value of the output current in the event of power failure minimum	30 ms
operating condition of the mains buffering	at $V_{in} = 400 \text{ V}$
line frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
line frequency	47 ... 63 Hz
input current	
• at rated input voltage 400 V	0.39 A
• at rated input voltage 500 V	0.32 A
current limitation of inrush current at 25 °C maximum	13 A
fuse protection type	
• in the feeder	three-poled coupled circuit breaker from 4 A characteristic C to 16 A characteristic C or circuit breaker 3RV2011-1EA10 (setting 4 A) or 3RV2711-1ED10 (UL 489)
Output	
voltage curve at output	Controlled, isolated DC voltage
number of outputs	1
output voltage at DC rated value	24 V
output voltage	
• at output 1 at DC rated value	24 V
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
• on slow fluctuation of input voltage	0.2 %
• on slow fluctuation of ohm loading	0.1 %
residual ripple	
• maximum	30 mV
• typical	20 mV
voltage peak	
• maximum	30 mV



SITOP PSU6200/3AC/24VDC/20A

SITOP PSU6200 24 V/20 A stabilized power supply input: 400 - 500 V AC
output: 24 V DC/20 A with diagnostics interface

Input	
type of the power supply network	3-phase AC or DC
supply voltage at AC	
• minimum rated value	400 V
• maximum rated value	500 V
• initial value	323 V
• full-scale value	576 V
input voltage	
• at DC	450 ... 600 V
operating condition of the mains buffering	at $V_{in} = 400$ V
buffering time for rated value of the output current in the event of power failure minimum	25 ms
operating condition of the mains buffering	at $V_{in} = 400$ V
line frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
line frequency	47 ... 63 Hz
input current	
• at rated input voltage 400 V	0.77 A
• at rated input voltage 500 V	0.62 A
current limitation of inrush current at 25 °C maximum	17 A
fuse protection type	
• in the feeder	three-poled coupled circuit breaker from 4 A characteristic C to 16 A characteristic C or circuit breaker 3RV2011-1EA10 (setting 4 A) or 3RV2711-1ED10 (UL 489)
Output	
voltage curve at output	Controlled, isolated DC voltage
number of outputs	1
output voltage at DC rated value	24 V
output voltage	
• at output 1 at DC rated value	24 V
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
• on slow fluctuation of input voltage	0.2 %
• on slow fluctuation of ohm loading	0.1 %
residual ripple	
• maximum	30 mV
• typical	20 mV
voltage peak	
• maximum	30 mV

For even higher availability, combine the 1-phase and 3-phase power supply units with the all-around SITOP add-on modules. These include the new buffer module SITOP BUF1200, the redundancy modules SITOP RED1200 and selectivity modules SITOP SEL1200, and SITOP SEL1400 in an attractive design to match the SITOP PSU6200.

Expansion modules for increasing system availability up to total all-round protection

The quality of the power supply unit alone can't guarantee a fault-free, 24-V supply. Power failures, extreme variations in the mains voltage or a faulty load can bring plant operation to a standstill and cause high costs. That's why processes and plants that are critical for a company's business generally require additional protection measures. SITOP add-on modules protect your production from a wide variety of potential hazards on the primary and secondary side and allow the completely flexible expansion of SITOP power supply units up to total, all-round protection.



SITOP redundancy modules



SITOP selectivity modules



SITOP buffer modules



SITOP inrush current limiters



SITOP redundancy modules

High availability of the 24-V supply thanks to redundant configuration

Two power supply units can be connected via a SITOP redundancy module for additional protection against failures. If one power supply fails, the other automatically takes over the power supply function. That's how SITOP safeguards the power supply in unstable conditions.

- Power is reliably supplied even when one power supply fails
- Compact redundancy modules for power supply units up to 48 V and 80 A
- Redundancy module SITOP PSE202U, 24 V/NEC Class 2 limited to 100 VA
- For SITOP PSE202U, diagnostics signal via LED and signaling contacts, and adjustable switching threshold for LEDs and signaling contacts
- SITOP RED1200 24 V/48 V/40 A (2 x 20 A) also available as an explosion-proof variant



SITOP PSE202U, 24 V/10 A,
6EP1964-2BA00 >



SITOP PSE202U NEC Class 2, 24
V/100 W, 6EP1962-2BA00 >



SITOP PSE202U, 24 V/40A,
6EP1961-3BA21 >



SITOP RED1200, 24 V/48 V/20 A,
6EP4346-7RB00-0AX0 >



SITOP RED1200, 24 V/48 V/40 A,
6EP4347-7RB00-0AX0 >



SITOP RED1200 Ex, 24 V/48 V/40
A, 6EP4347-7RC00-0AX0 >



SITOP RED1200, 24 V/48 V/80 A,
6EP4348-7RB00-0AX0 >

SITOP selectivity modules

Selectivity and fast fault location in 24-V DC load circuits

The SITOP selectivity and diagnostics modules are the optimal extension for all 24-V DC power supplies. They distribute and monitor the load current over several current circuits. Overloads and short circuits on a circuit are reliably recognized and the faulty 24-V DC load circuit reliably disconnected, while the other loads continue with absolutely no interruption; this prevents the complete failure of the plant.

- Reliable tripping, regardless of the cable lengths or cable cross-sections
- 4 or 8 24-V DC load feeders per module
- Alternative switch-off characteristics:
 - Limiting – prevents short-term voltage drop to below 20 V
 - Switching – can result in short-term voltage drop to below 20 V
- Diagnostics via common signaling contact or single channel signaling
- SEL1200/1400: 4 or 8 outputs, each with diagnostics of voltage, current, set threshold, reason for disconnection (if applicable)
- SEL1200/1400 8 x 10 A also available as explosion-proof variants
- PSE200U: 4 outputs with voltage measuring point for current ($1 \text{ V} \cong 1 \text{ A}$)
- Evaluation by free SIMATIC S7 function blocks for modules with single-channel signaling



SITOP SEL1200, 4x10 A,
6EP4437-7FB00-3CX0



SITOP SEL1200, 8x5 A, 6EP4437-
7FB00-3DX0



SITOP SEL1200, 8x10 A,
6EP4438-7FB00-3DX0



SITOP SEL1200 Ex, 8x10 A,
6EP4438-7FC00-3DX0



SITOP SEL1400, 4x10 A,
6EP4437-7EB00-3CX0



SITOP SEL1400, 8x5 A, 6EP4437-
7EB00-3DX0





SITOP SEL1400, 8x10 A,
6EP4438-7EB00-3DX0

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SITOP SEL1400 Ex, 8x10 A,
6EP4438-7EC00-3DX0

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SITOP PSE200U 4x3 A, Common
signaling contact, 6EP1961-
2BA11

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SITOP PSE200U 4x3 A, Single
channel signaling, 6EP1961-
2BA31

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SITOP PSE200U 4x3 A NEC Class
2, Common signaling contact,
6EP1961-2BA51

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SITOP PSE200U 4x3 A NEC Class
2, Single channel signaling,
6EP1961-2BA561

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SITOP PSE200U 4x10 A, Common
signaling contact, 6EP1961-
2BA21

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SITOP PSE200U 4x10 A, Single
channel signaling, 6EP1961-
2BA41

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SITOP select Diagnostic Module,
4x10 A, 6EP1961-2BA00

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SITOP PSE201U and BUF1200 buffer modules

Bridging short-term power failures

Power failures usually last only a fraction of a second – but they can cause time- and cost-intensive damage. Used in combination with the 24-V DC power supply units, the buffer modules bridge short-duration voltage dips with their electrolytic capacitors and reliably preserves interruption-free operation.

- Fast and easy DIN rail mounting
- Connects the power supply unit with only two lines
- Protection against short power failures. Buffer time depending on load current:
 - SITOP PSE201U: 200 ms/40 A, 400 ms/20 A, 0,8 s/10 A, 1,6 s/5 A, max. up to 10 s
 - SITOP BUF1200: 300 ms/40 A, 600 ms/20 A, 1,2 s/10 A, 2,4 s/5 A
 - Multiplication possible using parallel switching, with PSE201U max. up to 10 s
- BUF1200 also available as explosion-proof variant
- Longer power failures bridged by SITOP DC UPS for up to several hours



SITOP PSE201U, 6EP1961-3BA01



SITOP BUF1200, 6EP4231-7HB00-0AX0



SITOP BUF1200 Ex, 6EP4231-7HC00-0AX0



SITOP inrush current limiters

Protection for your loads

As a ballast unit for SITOP power supplies, SITOP inrush current limiters reliably reduce inrush currents like those caused by the rectifier circuit on the input side with capacitor charging – as in the case of pulse-controlled power supplies. An inrush current limiter can also significantly extend the service life of the connected loads.

- Maximum service life of current-sensitive components like relays thanks to reduced current inrushes
- Space-saving, thanks to narrow width of only 18 mm
- Suitable for LOGO! modules and sub-distribution boards thanks to stepped profile
- Flexible installation on the DIN rail, on the wall or in various other locations
- Maximum plant configuration enabled
- Flexible application options at temperatures ranging from -40° Celsius to +70° Celsius



SITOP inrush current limiter,
6EP1967-2AA00




SITOP inrush current limiter
LOGO! ICL230, 6EP4683-6LB00-
0AY0

Reliable system protection against a wide variety of potential hazards

Power failures, extreme variations in the mains voltage or a faulty load can bring plant operation to a standstill and cause high costs. That's why SITOP offers you a unique range of perfectly integrable expansion modules for reliable protection against a wide variety of potential hazards on the primary and secondary side. The SITOP add-on modules allow the completely flexible expansion of SITOP power supply units and extension up to total, all-round protection.

SITOP PSU6200 – Product highlights at a glance

<p>+ Diagnostics monitor</p> <ul style="list-style-type: none"> • LED display DC o.k., indication of utilization and operating hours 	<p>+ Diagnostics interface</p> <ul style="list-style-type: none"> • Provision of important operating parameters (e.g. power, voltage, overload, etc.) 	<p>+ High degree of efficiency</p> <ul style="list-style-type: none"> • Up to 96.6 %
<p>+ Push-in terminals</p> <ul style="list-style-type: none"> • Easy, time-saving installation without need for tools • Separate ground terminal 		
<p>+ Narrow overall width</p> <ul style="list-style-type: none"> • For direct side-by-side mounting without lateral installation clearances 	<p>+ Integrated product family</p> <ul style="list-style-type: none"> • Comprehensive range of products for a wide range of requirements 	<p>+ Robust AC input</p> <ul style="list-style-type: none"> • Active PFC • In case of phase failure constant operation with 2 phases possible <p>+ DC capability / wide range input</p> <ul style="list-style-type: none"> • Flexible use also on DC networks • Reliable in spite of power fluctuations

High performance. Focused diagnostics. The all-around power supply for a wide range of applications

