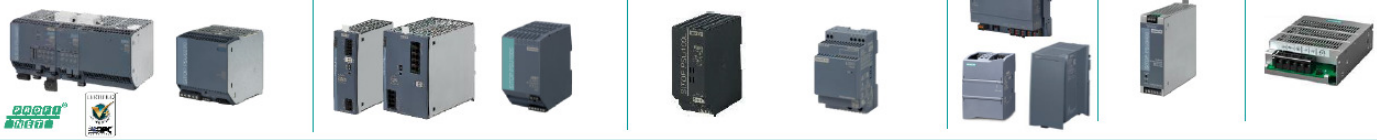
SITOP Power Supplies

SIEMENS

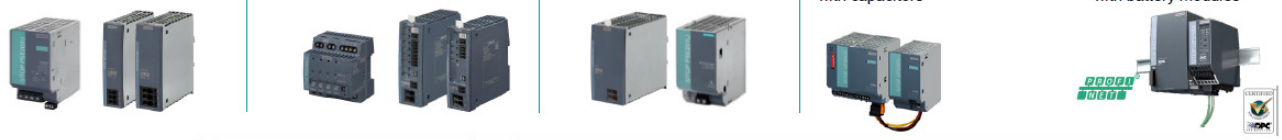
Portfolio overview
SITOP Power Supplies

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	**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	SITOP DC UPS with battery modules



Failure of a power supply	Overload in 24 V circuit	Power failure on the input side: Up to seconds	Up to minutes	Up to hours

SITOP lite
The low-cost basic power supply

- Wide range input AC with manual switchover; 20 A version even features automatic switchover and DC compatibility
- Minimal installation width with no lateral clearance requirement to neighboring devices
- Green LED for »24 V OK«
- Parallel connection option for enhanced performance
- Provides all important functions at a favorable price – without compromising on quality or reliability

Technology overview

Input	120/230 V AC (85 …132/170 … 264 V AC) 20 A: 120 – 230 V AC (85 … 264 V AC/88 … 370 V DC)
Output	24 V DC/2.5 A; 5 A; 10 A; 20 A
Output adjustment range	22.8 … 26.4 V DC
Efficiency	Approx. 85 … 92%
Status signaling	Green LED »24 V OK«
Temperature range	0 … +60 ° C (derating >45 ° C) 20 A: -25 … +70 ° C
Certifications	CE, UL LISTED, IECEE CB-Scheme

CHESS CONTROLS Tel. 705 682 2828 Email sales@chesscontrols.com Web www.chesscontrols.com

LOGO!Power
The flat power supply for distribution boards

Technology overview

Input	AC 100 – 240 V (AC 85 ... 264 V/DC 110 ... 300 V)
Output	DC 5 V/3 A; 6,3 A, DC 12 V/0,9 A; 1,9 A; 4,5 A, DC 15 V/1,9 A; 4 A, DC 24 V/0,6 A; 1,3 A; 2,5 A; 4 A
Efficiency	81 ... 90% (24 V)
No-load loss	<0.3 W
Status signaling	LED for »Output voltage OK«
Temperature range	-25 ... +70 ° C
Certifications	CE, UL, IECEE, FM, CSA Group, ABS, DNV·GL
(Partial) certifications	nec, Lloyd's Register, Ex

- Minimal width up to 18 mm
- High energy efficiency: <0.3 W power loss in standby, efficiency over entire load range up to 90%
- For global use, operating temperature from -25 °C to +70 °C and international certificates
- Power reserve for reliable operation during start-up, as well as constant current in the event of overload
- Current monitor for real-time measurement of output current
- Flexible mounting options for standard DIN rail or wall mounting
- Extensive portfolio up to 11 devices with 5 V/12 V/15 V and 24 V DC up to 100 W

Basic power supplies					
SITOP lite – Cost-effective basic power supply					
	24 V DC/2.5 A, PSU100L	120/230 V AC (93 ... 132/187 ... 264 V AC)	32,5 x 125 x 120	6EP1332-1LB00	• For industrial applications and basic requirements • Narrow width • Green LED for "24 V OK" • Adjustable output voltage
	24 V DC/5 A, PSU100L		50 x 125 x 120	6EP1333-1LB00	
	24 V DC/10 A, PSU100L		70 x 125 x 120	6EP1334-1LB00	
	24 V DC/20 A, PSU100L	100 - 240 V AC (85 ... 264 V AC/88 ... 370 V DC)	110 x 125 x 125	6EP1336-1LB00	
LOGO!Power 4th generation – Flat power supply for distribution boards in LOGO! 8 design					
 	5 V DC/3.0 A	100 – 240 V AC (85 ... 264 V AC/110 ... 300 V DC)	36 x 90 x 53	6EP3310-6SB00-0AY0	• The 4th generation with even more power in a smaller space: every performance class is 18 mm (1 modular width) narrower • New performance class only 18 mm wide • Wide-range AC and DC input • Voltage measuring point for output current • Up to 90% efficiency over entire load range • Very low no-load losses of < 0.3% • Constant current and power reserve for loads with high inrush currents • Flexible rail or wall mounting • Green LED for "Output voltage OK" • Adjustable output voltage • Temperature range -25 ... +70 °C
	5 V DC/6.3 A		54 x 90 x 53	6EP3311-6SB00-0AY0	
	12 V DC/0.9 A		18 x 90 x 53	6EP3320-6SB00-0AY0	
	12 V DC/1.9 A		36 x 90 x 53	6EP3321-6SB00-0AY0	
	12 V DC/4.5 A		54 x 90 x 53	6EP3322-6SB00-0AY0	
	15 V DC/1.9 A		36 x 90 x 53	6EP3321-6SB10-0AY0	
	15 V DC/4.0 A		54 x 90 x 53	6EP3322-6SB10-0AY0	
	24 V DC/0.6 A		18 x 90 x 53	6EP3330-6SB00-0AY0	
	24 V DC/1.3 A		36 x 90 x 53	6EP3331-6SB00-0AY0	
	24 V DC/2.5 A		54 x 90 x 53	6EP3332-6SB00-0AY0	
	24 V DC/4 A		72 x 90 x 53	6EP3333-6SB00-0AY0	

The cost-effective basic power supply

SITOP lite is the power supply series for basic requirements in the industrial environment, offering all the important functions at a low cost – without compromising quality and reliability. The wide-range input with manual switchover supports connection to a wide range of single-phase supply systems.

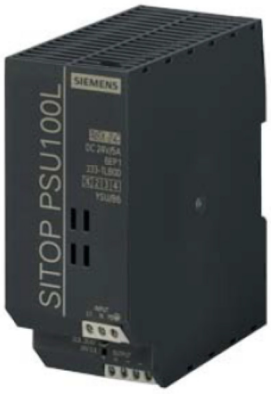
The wide-range input with manual switchover supports connection to a wide range of 1-phase supply systems. Thanks to the narrow width, the fanless primary switched-mode regulators require little space on the DIN rail and take up little space on the DIN rail and do not require lateral clearance to neighboring devices.

The high degree of efficiency results in low power consumption and heat loss in the control cabinet. Short-circuit and overload protection as well as UL approval for export ensure problem-free use. To further increase the 24 V availability, the SITOP lite basic power supply units can be combined with DC UPS, redundancy and selectivity modules.

SITOP PSU100L/1AC/24VDC/2.5A

SITOP PSU100L 24 V/2.5 A Stabilized power supply input: 120/230 V AC, output: DC 24 V/2,5 A

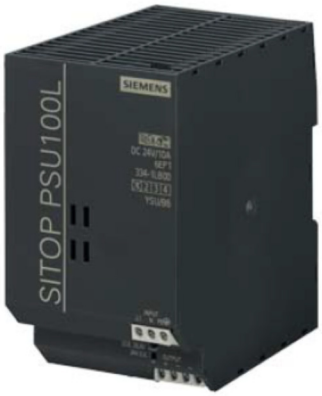
Input	
type of the power supply network	1-phase AC
supply voltage at AC	
• initial value	Set by means of selector switch on the device
supply voltage	
• 1 at AC rated value	120 V
• 2 at AC rated value	230 V
input voltage	
• 1 at AC	93 ... 132 V
• 2 at AC	187 ... 264 V
design of input wide range input	No
overvoltage overload capability	2.3 × Vin rated, 1.3 ms
operating condition of the mains buffering	at Vin = 93/187 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 Vin = 93/187 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	0.65 A
current limitation of inrush current at 25 °C maximum	27 A
duration of inrush current limiting at 25 °C	
• typical	3 ms
I2t value maximum	0.3 A^2·s
fuse protection type	T 2 A/250 V (not accessible)
• in the feeder	Recommended miniature circuit breaker: from 3 A characteristic C
Output	
voltage curve at output	Controlled, isolated DC voltage
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	0.5 %
residual ripple	
• maximum	150 mV



SITOP PSU100L/1AC/24VDC/5A

SITOP PSU100L 24 V/5 A Stabilized power supply input: 120/230 V AC, output: 24 V DC/5 A

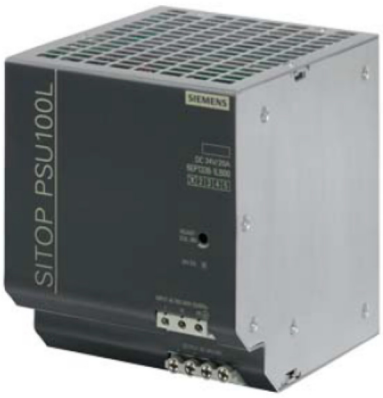
Input	
type of the power supply network	1-phase AC
supply voltage at AC	
• initial value	Set by means of selector switch on the device
supply voltage	
• 1 at AC rated value	120 V
• 2 at AC rated value	230 V
input voltage	
• 1 at AC	93 ... 132 V
• 2 at AC	187 ... 264 V
design of input wide range input	No
overvoltage overload capability	2.3 × Vin rated, 1.3 ms
operating condition of the mains buffering	at Vin = 93/187 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 Vin = 93/187 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	2.1 A
• at rated input voltage 230 V	1.15 A
current limitation of inrush current at 25 °C maximum	32 A
duration of inrush current limiting at 25 °C	
• typical	3 ms
I2t value maximum	0.8 A^2·s
fuse protection type	T 3,15 A/250 V (not accessible)
• in the feeder	Recommended miniature circuit breaker: from 6 A characteristic C
Output	
voltage curve at output	Controlled, isolated DC voltage
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	0.5 %
residual ripple	
• maximum	150 mV



SITOP PSU100L/1AC/24VDC/10A

SITOP PSU100L 24 V/10 A Stabilized power supply input: 120/230 V AC, output: DC 24 V/10 A

Input	
type of the power supply network	1-phase AC
supply voltage at AC	
• initial value	Set by means of selector switch on the device
supply voltage	
• 1 at AC rated value	120 V
• 2 at AC rated value	230 V
input voltage	
• 1 at AC	93 ... 132 V
• 2 at AC	187 ... 264 V
design of input wide range input	No
overvoltage overload capability	2.3 × Vin rated, 1.3 ms
operating condition of the mains buffering	at Vin = 93/187 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 Vin = 93/187 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	4.1 A
• at rated input voltage 230 V	2 A
current limitation of inrush current at 25 °C maximum	65 A
duration of inrush current limiting at 25 °C	
• typical	3 ms
I2t value maximum	3.3 A^2·s
fuse protection type	T 6.3 A/250 V (not accessible)
• in the feeder	Recommended miniature circuit breaker: from 10 A characteristic C
Output	
voltage curve at output	Controlled, isolated DC voltage
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	0.5 %
residual ripple	
• maximum	150 mV



SITOP PSU100L/1AC/24VDC/20A

SITOP PSU100L 24 V/20 A Stabilized power supply input: 100-240 V AC output: 24 V DC/20 A

Input	
type of the power supply network	1-phase AC or DC
supply voltage at AC	
• minimum rated value	100 V
• maximum rated value	240 V
supply voltage	
• at DC	100 ... 240 V
input voltage	
• 1 at AC	85 ... 264 V
• at DC	88 ... 370 V
design of input wide range input	Yes
operating condition of the mains buffering	at Vin = 93/187 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 Vin = 93/187 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	5.55 A
• at rated input voltage 230 V	2.35 A
current limitation of inrush current at 25 °C maximum	45 A
duration of inrush current limiting at 25 °C	
• typical	15 ms
I2t value maximum	3.3 A^2·s
fuse protection type	T 10 A/250 V (not accessible)
• in the feeder	Recommended miniature circuit breaker: from 10 A characteristic C
Output	
voltage curve at output	Controlled, isolated DC voltage
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	1 %
residual ripple	
• maximum	150 mV
• typical	50 mV

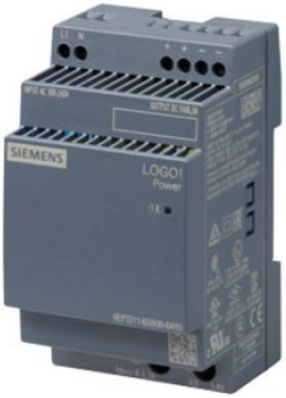
Data sheet 6EP3310-6SB00-0AY0

LOGO!Power/1AC/5VDC/3A

LOGO!Power 5 V / 3 A stabilized power supply input: 100-240 V AC output: 5 V DC / 3 A *Ex approval no longer available*

Input	
type of the power supply network	1-phase AC or DC
supply voltage at AC	
• minimum rated value	100 V
• maximum rated value	240 V
• initial value	85 V
• full-scale value	264 V
input voltage	
• at DC	110 ... 300 V
design of input wide range input	Yes
overvoltage overload capability	300 V AC for 1 s
operating condition of the mains buffering	at Vin = 187 V
buffering time for rated value of the output current in the event of power failure minimum	40 ms
operating condition of the mains buffering	at Vin = 187 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	0.36 A
• at rated input voltage 230 V	0.22 A
current limitation of inrush current at 25 °C maximum	26 A
I2t value maximum	0.8 A^2·s
fuse protection type	internal
• in the feeder	Recommended miniature circuit breaker: from 6 A characteristic B or from 2 A characteristic C

Output	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	5 V
output voltage	
• at output 1 at DC rated value	5 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	
• maximum	100 mV
• typical	30 mV
voltage peak	



LOGO!Power/1AC/5VDC/6.3A

LOGO!Power 5 V / 6.3 A stabilized power supply input: 100-240 V AC output: 5 V DC / 6.3 A *Ex approval no longer available*

Input	
type of the power supply network	1-phase AC or DC
supply voltage at AC	
• minimum rated value	100 V
• maximum rated value	240 V
• initial value	85 V
• full-scale value	264 V
input voltage	
• at DC	110 ... 300 V
design of input wide range input	Yes
overvoltage overload capability	300 V AC for 1 s
operating condition of the mains buffering	at Vin = 187 V
buffering time for rated value of the output current in the event of power failure minimum	40 ms
operating condition of the mains buffering	at Vin = 187 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	0.71 A
• at rated input voltage 230 V	0.37 A
current limitation of inrush current at 25 °C maximum	50 A
I2t value maximum	3 $A^2 \cdot s$
fuse protection type	internal
• in the feeder	Recommended miniature circuit breaker: from 10 A characteristic B or from 6 A characteristic C

Output	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	5 V
output voltage	
• at output 1 at DC rated value	5 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	
• maximum	100 mV
• typical	30 mV
voltage peak	

LOGO!Power/1AC/12VDC/0.9A

LOGO!Power 12 V / 0.9 A stabilized power supply input: 100-240 V AC output: 12 V DC/ 0.9 A *Ex approval no longer available*

Input	
type of the power supply network	1-phase AC or DC
supply voltage at AC	
• minimum rated value	100 V
• maximum rated value	240 V
• initial value	85 V
• full-scale value	264 V
input voltage	
• at DC	110 ... 300 V
design of input wide range input	Yes
overvoltage overload capability	300 V AC for 1 s
operating condition of the mains buffering	at Vin = 187 V
buffering time for rated value of the output current in the event of power failure minimum	40 ms
operating condition of the mains buffering	at Vin = 187 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	0.3 A
• at rated input voltage 230 V	0.2 A
current limitation of inrush current at 25 °C maximum	20 A
I2t value maximum	0.8 A^2·s
fuse protection type	internal
• in the feeder	Recommended miniature circuit breaker: from 6 A characteristic B or from 2 A characteristic C

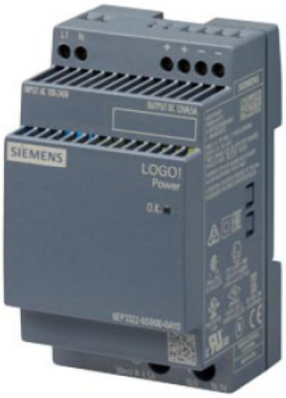
Output	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	12 V
output voltage	
• at output 1 at DC rated value	12 V
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
• on slow fluctuation of input voltage	0.1 %
• on slow fluctuation of ohm loading	0.1 %
residual ripple	
• maximum	200 mV
• typical	30 mV
voltage peak	

LOGO!Power/1AC/12VDC/1.9A

LOGO!Power 12 V / 1.9 A stabilized power supply input: 100-240 V AC output: 12 V DC/ 1.9 A *Ex approval no longer available*

Input	
type of the power supply network	1-phase AC or DC
supply voltage at AC	
• minimum rated value	100 V
• maximum rated value	240 V
• initial value	85 V
• full-scale value	264 V
input voltage	
• at DC	110 ... 300 V
design of input wide range input	Yes
overvoltage overload capability	300 V AC for 1 s
operating condition of the mains buffering	at Vin = 187 V
buffering time for rated value of the output current in the event of power failure minimum	40 ms
operating condition of the mains buffering	at Vin = 187 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	0.53 A
• at rated input voltage 230 V	0.3 A
current limitation of inrush current at 25 °C maximum	25 A
I2t value maximum	0.8 A^2·s
fuse protection type	internal
• in the feeder	Recommended miniature circuit breaker: from 6 A characteristic B or from 2 A characteristic C

Output	
voltage curve at output	Controlled, isolated DC voltage
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	
• maximum	200 mV
• typical	30 mV
voltage peak	



LOGO!Power/1AC/12VDC/4.5A

LOGO!Power 12 V / 4.5 A stabilized power supply input: 100-240 V AC output: 12 V DC / 4.5 A *Ex approval no longer available*

Input	
type of the power supply network	1-phase AC or DC
supply voltage at AC	
• minimum rated value	100 V
• maximum rated value	240 V
• initial value	85 V
• full-scale value	264 V
input voltage	
• at DC	110 ... 300 V
design of input wide range input	Yes
overvoltage overload capability	300 V AC for 1 s
operating condition of the mains buffering	at Vin = 187 V
buffering time for rated value of the output current in the event of power failure minimum	40 ms
operating condition of the mains buffering	at Vin = 187 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	1.13 A
• at rated input voltage 230 V	0.61 A
current limitation of inrush current at 25 °C maximum	50 A
I2t value maximum	3 $A^2 \cdot s$
fuse protection type	internal
• in the feeder	Recommended miniature circuit breaker: from 10 A characteristic B or from 6 A characteristic C

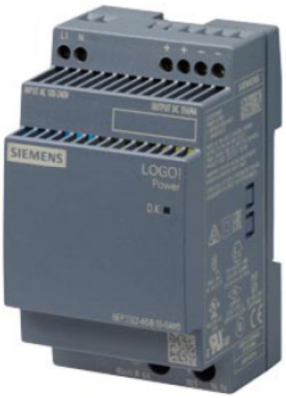
Output	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	12 V
output voltage	
• at output 1 at DC rated value	12 V
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
• on slow fluctuation of input voltage	0.1 %
• on slow fluctuation of ohm loading	0.1 %
residual ripple	
• maximum	200 mV
• typical	30 mV
voltage peak	

LOGO!Power/1AC/15VDC/1.9A

LOGO!Power 15 V / 1.9 A stabilized power supply input: 100-240 V AC output: 15 V DC / 1.9 A *Ex approval no longer available*

Input	
type of the power supply network	1-phase AC or DC
supply voltage at AC	
• minimum rated value	100 V
• maximum rated value	240 V
• initial value	85 V
• full-scale value	264 V
input voltage	
• at DC	110 ... 300 V
design of input wide range input	Yes
overvoltage overload capability	300 V AC for 1 s
operating condition of the mains buffering	at Vin = 187 V
buffering time for rated value of the output current in the event of power failure minimum	40 ms
operating condition of the mains buffering	at Vin = 187 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	0.63 A
• at rated input voltage 230 V	0.33 A
current limitation of inrush current at 25 °C maximum	25 A
I2t value maximum	0.8 $A^2 \cdot s$
fuse protection type	internal
• in the feeder	Recommended miniature circuit breaker: from 6 A characteristic B or from 2 A characteristic C

Output	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	15 V
output voltage	
• at output 1 at DC rated value	15 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	
• maximum	200 mV
• typical	30 mV
voltage peak	



LOGO!Power/1AC/15VDC/4A

LOGO!Power 15 V / 4 A stabilized power supply input: 100-240 V AC output: 15 V DC / 4 A *Ex approval no longer available*

Input	
type of the power supply network	1-phase AC or DC
supply voltage at AC	
• minimum rated value	100 V
• maximum rated value	240 V
• initial value	85 V
• full-scale value	264 V
input voltage	
• at DC	110 ... 300 V
design of input wide range input	Yes
overvoltage overload capability	300 V AC for 1 s
operating condition of the mains buffering	at Vin = 187 V
buffering time for rated value of the output current in the event of power failure minimum	40 ms
operating condition of the mains buffering	at Vin = 187 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	1.24 A
• at rated input voltage 230 V	0.68 A
current limitation of inrush current at 25 °C maximum	55 A
I2t value maximum	3 $A^2 \cdot s$
fuse protection type	internal
• in the feeder	Recommended miniature circuit breaker: from 10 A characteristic B or from 6 A characteristic C

Output	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	15 V
output voltage	
• at output 1 at DC rated value	15 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	
• maximum	200 mV
• typical	30 mV
voltage peak	

LOGO!Power/1AC/24VDC/0.6A

LOGO!Power 24 V / 0.6 A stabilized power supply input: 100-240 V AC output: 24 V DC/ 0.6 A *Ex approval no longer available*

Input	
type of the power supply network	1-phase AC or DC
supply voltage at AC	
• minimum rated value	100 V
• maximum rated value	240 V
• initial value	85 V
• full-scale value	264 V
input voltage	
• at DC	110 ... 300 V
design of input wide range input	Yes
overvoltage overload capability	300 V AC for 1 s
operating condition of the mains buffering	at Vin = 187 V
buffering time for rated value of the output current in the event of power failure minimum	40 ms
operating condition of the mains buffering	at Vin = 187 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	0.3 A
• at rated input voltage 230 V	0.2 A
current limitation of inrush current at 25 °C maximum	20 A
I2t value maximum	0.8 $A^2 \cdot s$
fuse protection type	internal
• in the feeder	Recommended miniature circuit breaker: from 6 A characteristic B or from 2 A characteristic C

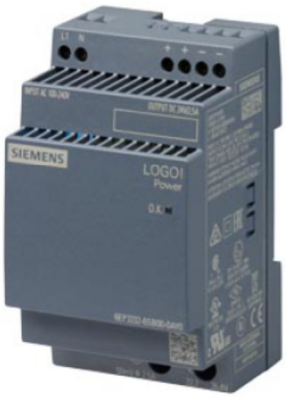
Output	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	24 V
output voltage	
• at output 1 at DC rated value	24 V
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
• on slow fluctuation of input voltage	0.1 %
• on slow fluctuation of ohm loading	0.1 %
residual ripple	
• maximum	200 mV
• typical	30 mV
voltage peak	

LOGO!Power/1AC/24VDC/1.3A

LOGO!Power 24 V / 1.3 A stabilized power supply input: 100-240 V AC output: 24 V DC/ 1.3 A *Ex approval no longer available*

Input	
type of the power supply network	1-phase AC or DC
supply voltage at AC	
• minimum rated value	100 V
• maximum rated value	240 V
• initial value	85 V
• full-scale value	264 V
input voltage	
• at DC	110 ... 300 V
design of input wide range input	Yes
overvoltage overload capability	300 V AC for 1 s
operating condition of the mains buffering	at Vin = 187 V
buffering time for rated value of the output current in the event of power failure minimum	40 ms
operating condition of the mains buffering	at Vin = 187 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	0.7 A
• at rated input voltage 230 V	0.35 A
current limitation of inrush current at 25 °C maximum	25 A
I2t value maximum	0.8 $A^2 \cdot s$
fuse protection type	internal
• in the feeder	Recommended miniature circuit breaker: from 6 A characteristic B or from 2 A characteristic C

Output	
voltage curve at output	Controlled, isolated DC voltage
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	
• maximum	200 mV
• typical	30 mV
voltage peak	

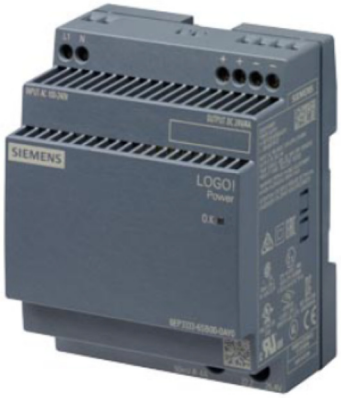


LOGO!Power/1AC/24VDC/2.5A

LOGO!POWER 24 V / 2.5 A Stabilized power supply input: 100-240 V AC output: 24 V DC/ 2.5 A *Ex approval no longer available*

Input	
type of the power supply network	1-phase AC or DC
supply voltage at AC	
• minimum rated value	100 V
• maximum rated value	240 V
• initial value	85 V
• full-scale value	264 V
input voltage	
• at DC	110 ... 300 V
design of input wide range input	Yes
overvoltage overload capability	300 V AC for 1 s
operating condition of the mains buffering	at Vin = 187 V
buffering time for rated value of the output current in the event of power failure minimum	40 ms
operating condition of the mains buffering	at Vin = 187 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	1.22 A
• at rated input voltage 230 V	0.66 A
current limitation of inrush current at 25 °C maximum	52 A
I2t value maximum	3 $A^2 \cdot s$
fuse protection type	internal
• in the feeder	Recommended miniature circuit breaker: from 10 A characteristic B or from 6 A characteristic C

Output	
voltage curve at output	Controlled, isolated DC voltage
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	
• maximum	200 mV
• typical	30 mV
voltage peak	



LOGO!Power/1AC/24VDC/4A

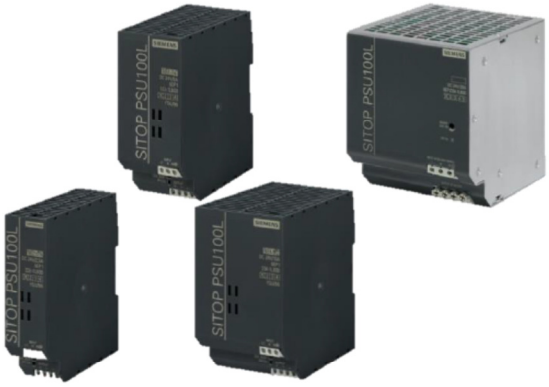
LOGO!Power 24 V / 4 A stabilized power supply input: 100-240 V AC output: 24 V DC / 4 A *Ex approval no longer available*

Input	
type of the power supply network	1-phase AC or DC
supply voltage at AC	
• minimum rated value	100 V
• maximum rated value	240 V
• initial value	85 V
• full-scale value	264 V
input voltage	
• at DC	110 ... 300 V
design of input wide range input	Yes
overvoltage overload capability	300 V AC for 1 s
operating condition of the mains buffering	at Vin = 187 V
buffering time for rated value of the output current in the event of power failure minimum	40 ms
operating condition of the mains buffering	at Vin = 187 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	1.95 A
• at rated input voltage 230 V	0.97 A
current limitation of inrush current at 25 °C maximum	31 A
I2t value maximum	2.5 $A^2 \cdot s$
fuse protection type	internal
• in the feeder	Recommended miniature circuit breaker: from 10 A characteristic B or from 6 A characteristic C

Output	
voltage curve at output	Controlled, isolated DC voltage
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	
• maximum	200 mV
• typical	30 mV
voltage peak	

SITOP lite – SITOP PSU100L
The cost-effective basic power supply

Feature / Function		Benefit
Narrow installation width because no lateral clearances are required to neighbor devices	>	Less mounting surface on DIN rail required
High degree of efficiency: Up to 92%	>	Low energy consumption and low heat development in the control cabinet
Cooling through natural convection	>	Fanless operation without forced ventilation
Wide-range input for AC with manual switchover, 20-A version even available with automatic switchover and suitable for DC	>	Worldwide connection to a variety of single-phase supply networks possible, 20-A version also operation with battery network possible
Adjustable output voltage 22.8…26.4 V DC (20 A: 22.8…28 V DC)	>	Compensation of voltage drop on long lines
Green LED for output voltage „24 V o.k."	>	Detection of ready for operation
Electronic short-circuit protection with constant current characteristics	>	Reliable overload protection, provides maximal current before switching-off
Ambient temperature range • 2,5 A, 5 A, 10 A: 0 … + 60 °C • 20 A: -25 …+ 70 °C	>	Application under various ambient conditions allowed



Output, Type	Article No.
PSU100L 24 V DC/2.5 A (60 W)	6EP1332-1LB00
PSU100L 24 V DC/5 A (120 W)	6EP1333-1LB00
PSU100L 24 V DC/10 A (240 W)	6EP1334-1LB00
PSU100L 24 V DC/20 A (480 W)	6EP1336-1LB00

LOGO!Power
Functions and benefits

Feature / Function		Benefits
Narrow width	>	Smallest construction type in each performance class saves space
High efficiency up to 90% over the entire load range Minimal no-load losses < 0.3 W	>	Energy savings in stand-by mode and during operation
Measurement point for current output current	>	Real-time performance monitoring for commissioning and operation
Standard DIN rail and wall mounting	>	Flexible mounting possible
Operating temperature from -25°C to +70°C	>	Savings during start-up, especially in cool environments
Power reserve when starting up as well as constant current in the event of overload	>	Operational reliability through problem-free connection of loads with high inrush current
Ex-variant LOGO!Power Ex 24 V/4 A	>	Meets new ATEX standard mandatory from April 2022