

# SIEMENS



LOGO!Power

Edition 04/2015

## Flat power supply in LOGO! 8 design for distribution boards

**Our miniature power supply units in the LOGO! 8 design offer great performance in the smallest space. Thanks to various output voltages, high functionality and comprehensive certifications, they are suitable for highly versatile implementation in numerous applications in the lower performance range.**

The excellent efficiency over the complete load range and the low power loss during idle times guarantee efficient operation. The wide-range input for connection to networks with alternating or direct voltage, the wide operating temperature range, as well as the power reserve for starting up capacitive loads makes them suitable for universal use. These reliable power supplies with their flat, stepped profile are extremely suitable for applications with low mounting depths, such as in distribution boards, for example.

To further increase the 24 V availability, LOGO!Power power supplies can be combined with DC UPS, redundancy and selectivity modules.

You can find the appropriate power supply quickly and easily with the SITOP Selection Tool.

### The benefits at a glance

- 3 performance classes up to 4 A for 24 V DC, 2 performance classes for 5, 12 and 15 V DC
- Flat LOGO! 8 design with just 55 mm installation depth
- 1-phase wide-range input from 85 to 264 V AC or 110 to 300 V DC
- High efficiency across the entire load range, low load losses while in standby
- Constant current for connection of loads with high inrush current
- Power reserve on starting up through 1.5 times the rated current for capacitive loads
- Adjustable output voltage
- Green LED for "Output voltage OK"
- Temperature range from -20 °C to +70 °C
- Comprehensive certification e.g. UL approval, for semiconductor industry, explosion protection and ship building

Technical data	LOGO!Power 5 V		LOGO!Power 12 V	
				
	5 V / 3 A	5 V / 6.3 A	12 V / 1.9 A	12 V / 4.5 A
Article No. <sup>1)</sup>	6EP1311-1SH03	6EP1311-1SH13	6EP1321-1SH03	6EP1322-1SH03
Input voltage, rated value	100 – 240 V AC		100 – 240 V AC	
– Range	85 ... 264 V AC / 110 ... 300 V DC		85 ... 264 V AC / 110 ... 300 V DC	
Mains buffering	> 40 ms (at 187 V)		> 40 ms (at 187 V)	
Line frequency, rated value	50/60 Hz		50/60 Hz	
Input current, rated value	0.36 ... 0.22 A	0.71 ... 0.37 A	0.53 ... 0.30 A	1.13 ... 0.61 A
– Inrush current (25 °C)	< 26 A	< 50 A	< 25 A	< 55 A
– Recommend. miniature circuit breaker	At and above 10 A characteristic C or 16 A characteristic B		From 10 A characteristic C or 16 A characteristic B	
Output voltage, rated value	5 V DC		12 V DC	
– Tolerance	± 3%		± 3%	
– Adjustment range	4.6 to 5.4 V DC		10.5 to 16.1 V DC	
Output current, rated value	3.0 A	6.3 A	1.9 A	4.5 A
– Derating	From 55°C (2%/K)	from 55°C (2%/K)	From 55°C (2%/K)	From 55°C (2%/K)
Approx. efficiency at rated values	77%	83%	80%	85%
Power losses under no-load operation	< 1.5 W	< 1.5 W	< 1.8 W	< 1.9 W
Connectable in parallel	Yes, 2 units		Yes, 2 units	
Electronic short-circuit protection	Yes, constant current		Yes, constant current	
Radio suppression level (EN 55022)	Class B		Class B	
Radio interference suppression (EN 61000-3-2)	not applicable		Not applicable	
Degree of protection (EN 60529)	IP20		IP20	
Ambient temperature	-20 ... +70 °C		-20... +70 °C	
Dimensions (W x H x D) in mm	54 x 90 x 55	72 x 90 x 55	54 x 90 x 55	72 x 90 x 55
Approx. weight	0.17 kg	0.25 kg	0.17 kg	0.25 kg
Certification	CE, cULus, CB Scheme, FM, ATEX, cCSAus Class I Div 2, GL, ABS		CE, cULus, CB Scheme, FM, ATEX, cCSAus Class I Div 2, GL, ABS	

Technical data	LOGO!Power 15 V		LOGO!Power 24 V		
					
	15 V / 1.9 A	15 V / 4 A	24 V / 1.3 A	24 V / 2.5 A	24 V / 4 A
Article No. <sup>1)</sup>	6EP1351-1SH03	6EP1352-1SH03	6EP1331-1SH03	6EP1332-1SH43	6EP1332-1SH52
Input voltage, rated value	100 – 240 V AC		100 – 240 V AC		
– Range	85 ... 264 V AC / 110 ... 300 V DC		85 ... 264 V AC / 110 ... 300 V DC		
Mains buffering	> 40 ms (at 187 V)		> 40 ms (at 187 V)		
Line frequency, rated value	50/60 Hz		50/60 Hz		
Input current, rated value	0.63 ... 0.33 A	1.24 ... 0.68 A	0.70 ... 0.35 A	1.22 ... 0.66 A	1.95 ... 0.97 A
– Inrush current (25 °C)	< 25 A	< 55 A	< 25 A	< 46 A	< 30 A
– Recommend. miniature circuit breaker	From 10 A characteristic C or 16 A characteristic B		From 10 A characteristic C or 16 A characteristic B		
Output voltage, rated value	15 V DC		24 V DC		
– Tolerance	± 3%		± 3%		
– Adjustment range	10.5 ... 16.1 V DC		22.2 to 26.4 V DC		
Output current, rated value	1.9 A	4.0 A	1.3 A	2.5 A	4.0 A
– Derating	From 55°C (2%/K)	From 55°C (2%/K)	From 55°C (2%/K)	From 55°C (2%/K)	From 55°C (2%/K)
Approx. efficiency at rated values	80%	85%	85%	88%	89%
Power losses under no-load operation	< 2 W	< 2.3 W	< 2 W	< 1.8 W	< 2 W
Connectable in parallel	Yes, 2 units		Yes, 2 units		
Electronic short-circuit protection	Yes, constant current		Yes, constant current		
Radio suppression level (EN 55022)	Class B		Class B		
Radio interference suppression (EN 61000-3-2)	Not applicable		Not applicable	Not applicable	Yes
Degree of protection (EN 60529)	IP20		IP20		
Ambient temperature	-20 ... +70 °C		-20 ... +70 °C		
Dimensions (W x H x D) in mm	54 x 90 x 55	72 x 90 x 55	54 x 90 x 55	72 x 90 x 55	90 x 90 x 55
Approx. weight	0.17 kg	0.25 kg	0.17 kg	0.25 kg	0.34 kg
Certification	CE, cULus, CB Scheme, FM, ATEX, cCSAus Class I Div 2, GL, ABS		CE, cULus, CB Scheme, FM, ATEX, SEMI F47, NEC Class 2, cCSAus Class I Div 2, GL, ABS, DNV, BV, LRS		CE, cULus, CB Scheme, FM, ATEX, SEMI F47, cCSAus Class I Div 2, GL, ABS, DNV, BV, LRS

<sup>1)</sup> You will find up-to-date ordering data as well as our terms of sale and delivery on the Internet.

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