

LOGO!Power Supplies

DC power up to 24 V/4 A

Compact , powerful, economic



The benefits at a glance

- Three output classes with 24 V, two output classes, each with 5 V, 12 V and 15 V
- Space-saving compact design: only 54, 72 or 90 mm
- Low step profile, ideal for installation in small distribution panels
- Constant current protection for DC/DC converters and motors with high in-rush requirements
- Wide adjustment range for output voltage, easily adjustable via front access potentiometer
- Green LED indicator for "Output voltage OK" status
- World-wide applications – from industrial environments to residential low-voltage networks
- Wide input voltage range 85 V – 264 V fits most applications
- Wide operating temperature range from -20 °C to +55 °C to suitable for many environments
- High EMC requirements
- Comprehensive certifications including CE, UL/cUL, FM and shipbuilding GL
- Constant output voltage for load protection
- Parallel connection for increased power output

Technical Description • July 2004

logo!

POWER

NEW

Up to 4 A
at 24 Volts

Our LOGO!Power compact power supplies offer high performance in a small package. Even the most powerful model, providing a maximum output current of 4 A at 24 V, fits comfortably where space is at a premium. All the flexible power and functionality come at a low price that's hard to beat, proving once again that the best things often come in a small package. Give LOGO!Power a try and get ready for a powerful surprise!

SIEMENS



NEWUp to 4 A
at 24 Volts

Technical specifications

LOGO!Power



Input data			
Input voltage V_{in}	Alternating voltage, single-phase		
Rated voltage $V_{in \text{ rated}}$	100 V AC to 240 V AC (wide-range input)		
Voltage range	85 V AC to 264 V AC		
Mains buffering for $I_{out \text{ rated}}$	> 40 ms (at 187 V)		
Frequency	50/60 Hz		
Input current; inrush current (+25 °C)			
5 V	0.36 to 0.22 A; < 15 A	0.71 to 0.37 A; < 30 A	–
12 V	0.53 to 0.30 A; < 15 A	1.13 to 0.61 A; < 30 A	–
15 V	0.63 to 0.33 A; < 15 A	1.24 to 0.68 A; < 30 A	–
24 V	0.70 to 0.35 A; < 15 A	1.22 to 0.66 A; < 30 A	1.95 to 0.97 A; < 30 A
Recommended circuit-breaker in the network feeder	From 10 A characteristic C resp. from 16 A characteristic B		

Output data			
Output voltage V_{out}	Floating direct voltage		
Rated voltage $V_{out \text{ rated}}$	5 V / 12 V / 15 V / 24 V DC	5 V / 12 V / 15 V / 24 V DC	24 V DC
Tolerance	± 3%		
Setting range; residual ripple			
5 V	4.6 to 5.4 V DC; < 100 mV _{pp}	4.6 to 5.4 V DC; < 100 mV _{pp}	–
12 V	10.5 to 16.1 V DC; < 200 mV _{pp}	10.5 to 16.1 V DC; < 200 mV _{pp}	–
15 V	10.5 to 16.1 V DC; < 200 mV _{pp}	10.5 to 16.1 V DC; < 200 mV _{pp}	–
24 V	22.2 to 26.4 V DC; < 200 mV _{pp}	22.2 to 26.4 V DC; < 200 mV _{pp}	22.2 to 26.4 V DC; < 200 mV _{pp}
Nominal output current $I_{out \text{ rated}}$			
5 V	3.0 A	6.3 A	–
12 V	1.9 A	4.5 A	–
15 V	1.9 A	4.0 A	–
24 V	1.3 A	2.5 A	4.0 A
Parallel connection for higher output capability	Yes		
Short-circuit protection	Yes, constant current approx. $1.3 \times I_{out \text{ rated}}$		
Status indicator	Green LED for output voltage OK		

General specifications			
Safety			
Type of protection	IP 20 (EN 60529)		
Protection class	Class II		
Galvanic isolation	Yes, SELV output voltage (EN 60950, EN 50178)		
EMC			
Emitted interference	Radio interference level Class B (EN 55022)		
Noise immunity	EN 61000-6-2		
Ambient temperature	–20 °C to +55 °C (without condensation)		
Storage and transport temperature	–40 °C to +70 °C		
Installation	Snaps onto standard mounting rail DIN EN 50022-35 x 7.5/15		
Dimensions (W x H x D)	54 mm x 90 mm x 55 mm	72 mm x 90 mm x 55 mm	90 mm x 90 mm x 55 mm
Weight, approx.	0.17 kg	0.25 kg	0.34 kg

Ordering data for LOGO!Power power supply						
	$I_{out \text{ rated}}$	Order No.	$I_{out \text{ rated}}$	Order No.	$I_{out \text{ rated}}$	Order No.
LOGO!Power 5 V	3.0 A	6EP1 311-1SH02	6.3 A	6EP1 311-1SH12		
LOGO!Power 12 V	1.9 A	6EP1 321-1SH02	4.5 A	6EP1 322-1SH02		
LOGO!Power 15 V	1.9 A	6EP1 351-1SH02	4.0 A	6EP1 352-1SH02		
LOGO!Power 24 V	1.3 A	6EP1 331-1SH02	2.5 A	6EP1 332-1SH42	4.0 A	6EP1 332-1SH51

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.