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Data sheet 6EP1321-1SH03

LOGO!POWER 12 V/1,9 A

********* spare part ********** LOGO!Power 12 V/1.9 A stabilized power supply input: 100-240 V AC 110-300 V DC output: 12 V/1.9 A;

General information	
product brand name	LOGO!Power
product designation	Power supply LOGO!Power
type of current supply	12 V/1.9 A
input	
type of the power supply network	1-phase AC or DC
phase number	1
voltage curve at input	AC/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
supply voltage	
● at 50 Hz	240 V
● at 60 Hz	100 V
line frequency	50/60 Hz
line frequency	47 ... 63 Hz
wide range input	Yes
overvoltage overload capability	2.3 × Vin rated, 1.3 ms
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
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 A²·s
fuse protection type	internal
fuse protection type 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
product function output voltage controlled	Yes
product function output voltage stabilized	Yes
output voltage at DC rated value	12 V
output voltage	
● at output 1 at DC rated value	12 V
output voltage	
● at output 1 at DC	12 V
output voltage adjustable	Yes; via potentiometer
adjustable output voltage	10.5 ... 16.1 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	1.5 %
residual ripple	

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● maximum	200 mV
● typical	10 mV
voltage peak	
● maximum	300 mV
● typical	20 mV
display version for normal operation	Green LED for output voltage OK
behavior of the output voltage when switching on	No overshoot of Vout (soft start)
response delay maximum	0.5 s
voltage increase time of the output voltage	
● typical	10 ms
output current	
● rated value	1.9 A
● rated range	0 ... 1.9 A; +55 ... +70 °C: Derating 2%/K
supplied active power typical	23 W
bridging of equipment	Yes
number of parallel-switched equipment resources for increasing the power	2
efficiency	
efficiency in percent	80 %
power loss [W]	
● at rated output voltage for rated value of the output current typical	5 W
● during no-load operation maximum	1.8 W
closed-loop control	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.2 %
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	3 %
setting time	
● load step 10 to 90% typical	1 ms
● load step 90 to 10% typical	1 ms
protection and monitoring	
design of the overvoltage protection	Yes, according to EN 60950-1
property of the output short-circuit proof	Yes
design of short-circuit protection	Constant current characteristic
● typical	2.8 A
enduring short circuit current RMS value	
● maximum	3.6 A
safety	
electrical separation between input and output	Yes
electrical separation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
operating resource protection class	Class II (without protective conductor)
protection class IP	IP20
EMC	
standard	
● for emitted interference	EN 55022 Class B
● for mains harmonics limitation	not applicable
● for interference immunity	EN 61000-6-2
standards, specifications, approvals	
certificate of suitability	
● CE marking	Yes
● UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273, NEC class 2 (acc. to UL 1310)
● EAC approval	Yes
● NEC Class 2	Yes
type of certification	
● CB-certificate	Yes
MTBF at 40 °C	3 593 503 h
standards, specifications, approvals hazardous environments	

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certificate of suitability	
● IECEx	No
● ATEX	No
● ULhazloc approval	No
● FM registration	No
standards, specifications, approvals marine classification	
shipbuilding approval	Yes
Marine classification association	
● American Bureau of Shipping Europe Ltd. (ABS)	Yes
● French marine classification society (BV)	No
● Det Norske Veritas (DNV)	Yes
● Lloyds Register of Shipping (LRS)	No
ambient conditions	
ambient temperature	
● during operation	-20 ... +70 °C; with natural convection
● during transport	-40 ... +85 °C
● during storage	-40 ... +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation
connection method	
type of electrical connection	screw terminal
● at input	L, N: 1 screw terminal each for 0.5 ... 2.5 mm2 single-core/finely stranded
● at output	+, -: 2 screw terminals each for 0.5 ... 2.5 mm²
● for auxiliary contacts	-
mechanical data	
width × height × depth of the enclosure	54 × 90 × 52.6 mm
installation width × mounting height	54 mm × 130 mm
required spacing	
● top	20 mm
● bottom	20 mm
● left	0 mm
● right	0 mm
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
● DIN-rail mounting	Yes
● S7 rail mounting	No
● wall mounting	No
housing can be lined up	Yes
net weight	0.17 kg
further information internet links	
internet link	
● to website: Industry Online Support	https://support.industry.siemens.com
additional information	
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)
security information	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

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Approvals Certificates

General Product Approval



Manufacturer Declaration



Declaration of Conformity

China RoHS



General Product Approval	EMV	Maritime application









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