Data sheet

6EP3321-6SB00-0AY0



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	
• maximum	300 mV
• typical	50 mV

	40.7
adjustable output voltage	10.5 16.1 V
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer
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	400
• typical	100 ms
output current	40.4
• rated value	1.9 A
 rated range supplied active power typical 	0 1.9 A; +55 +70 °C: Derating 2%/K
product feature	22.8 W
bridging of equipment	Yes
number of parallel-switched equipment resources for	2
increasing the power	2
Efficiency	
efficiency in percent	81 %
power loss [W]	01 70
at rated output voltage for rated value of the output	5 W
current typical	
during no-load operation maximum	0.3 W
Closed-loop control	
relative control precision of the output voltage with rapid	0.2 %
fluctuation of the input voltage by +/- 15% typical	
relative control precision of the output voltage at load step	2 %
of resistive load 10/90/10 % typical	
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
response value current limitation typical	2.5 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Constant current characteristic
enduring short circuit current RMS value	
• maximum	2.5 A
overcurrent overload capability in normal operation	overload capability 150% lout rated typ. 200 ms
display version for overload and short circuit	•
measuring point for output current	50 mV =^ 1.9 A
overcurrent overload capability when switching on	150% lout rated typ. 200 ms
Safety	
galvanic isolation between input and output	Yes
galvanic isolation	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
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,
• CSA approval	NEC class 2 (acc. to UL 1310)
CSA 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)
• cCSAus, Class 1, Division 2	No
• ATEX	No
certificate of suitability	
• IECEx	No
NEC Class 2	Yes
 ULhazloc approval 	No
 FM registration 	No
type of certification CB-certificate	Yes
certificate of suitability	

EAC approval	Yes
certificate of suitability shipbuilding approval	Yes
shipbuilding approval	ABS, BV, DNV GL, LRS
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes
French marine classification society (BV)	Yes
• DNV GL	Yes
 Lloyds Register of Shipping (LRS) 	Yes
Nippon Kaiji Kyokai (NK)	No
EMC	
standard	
 for emitted interference 	EN 55022 Class B
 for mains harmonics limitation 	not applicable
 for interference immunity 	EN 61000-6-2
environmental conditions	
ambient temperature	
during operation	-25 +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
Mechanics	
type of electrical connection	screw-type terminals
• at input	L, N: 1 screw terminal each for 0.5 2.5 mm2 single-core/finely stranded
at output	+, -: 1 screw terminal each for 0.5 2.5 mm ²
 for auxiliary contacts 	-
width of the enclosure	36 mm
height of the enclosure	90 mm
depth of the enclosure	53 mm
required spacing	
• top	20 mm
bottom	20 mm
• left	0 mm
● right	0 mm
net weight	0.12 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15, direct mounting in different mounting positions
MTBF at 40 °C	2 938 542 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

