Article number



6EP1321-1SH02

LOGO!POWER 12 V/1.9 A

LOGO!Power 12 V stabilized power supply input: 100-240 V AC output: 12 V DC/1.9 A

Figure similar

Input	1-phase AC
Rated voltage value Vin rated	100 240 V
Voltage range AC	85 264 V
Wide-range input	Yes
Overvoltage resistance	2.3 × Vin rated, 1.3 ms
Mains buffering at lout rated, min.	40 ms; at Vin = 187 V
Rated line frequency 1	
Rated line frequency 2	
Rated line range	47 63 Hz
Input current	_
 at rated input voltage 120 V 	0.53 A
 at rated input voltage 230 V 	0.3 A
Switch-on current limiting (+25 °C), max.	
I²t, max.	 0.8 A ² ·s
Built-in incoming fuse	internal
Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker: from 16 A characteristic or from 10 A characteristic C
Dutput	
Output	Controlled, isolated DC voltage
Rated voltage Vout DC	12 V
Total tolerance, static ±	3 %
Static mains compensation, approx.	0.2 %
Static load balancing, approx.	1.5 %
Residual ripple peak-peak, max.	200 mV
Residual ripple peak-peak, typ.	10 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	300 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	30 mV
Adjustment range	10.5 16.1 V
Product function Output voltage adjustable	Yes
Output voltage setting	via potentiometer
Status display	Green LED for output voltage OK
On/off behavior	No overshoot of Vout (soft start)
Startup delay, max.	0.5 s
Voltage rise, typ.	 15 ms
Rated current value lout rated	
Current range	0 1.9 A
Supplied active power typical	23 W
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced performance	2

Efficiency at Vout rated, lout rated, approx.	80 %
Power loss at Vout rated, lout rated, approx.	5 W
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %), max.	0.2 %
Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.	3 %
Load step setting time 10 to 90%, typ.	20 ms
Load step setting time 90 to 10%, typ.	20 ms
Protection and monitoring	
Output overvoltage protection	Yes, according to EN 60950
Current limitation, typ.	2.5 A
Property of the output Short-circuit proof	Yes
Short-circuit protection	Constant current characteristic
Enduring short circuit current RMS value	
• maximum	4 A
Overload/short-circuit indicator	-
Safety	
Primary/secondary isolation	Yes
Galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
Protection class	Class II (without protective conductor)
CE mark	Yes
UL/cUL (CSA) approval	cULus-listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-recognized (UL 60950, CSA C22.2 No. 60950), File E151273
Explosion protection	ATEX (EX) II 3G Ex nA IIC T3
FM approval	Class I, Div. 2, Group ABCD, T4
CB approval	Yes
Marine approval	GL, ABS
Degree of protection (EN 60529)	IP20
EMC	
Emitted interference	EN 55022 Class B
Supply harmonics limitation	not applicable
Noise immunity	EN 61000-6-2
Operating data	
Ambient temperature	
 during operation 	-20 +55 °C
— Note	with natural convection
 during transport 	-40 +70 °C
 during storage 	-40 +70 °C
Humidity class according to EN 60721	Climate class 3K3, no condensation
Mechanics	
Connection technology	screw-type terminals
Connections	
 Supply input 	L, N: 1 screw terminal each for 0.5 2.5 mm2 single-core/finely stranded
• Output	+, -: 2 screw terminals each for 0.5 2.5 mm ²
Auxiliary	-
Width of the enclosure	54 mm
Height of the enclosure	90 mm
Depth of the enclosure	55 mm
Required spacing	
• top	20 mm
• bottom	20 mm
• left	0 mm
• right	0 mm
Weight, approx.	0.17 kg
Product feature of the enclosure housing for side-by- side mounting	Yes

Installation MTBF at 40 °C Other information Snaps onto DIN rail EN 60715 35x7.5/15 1 729 757 h Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)