6EP3322-6SB00-0AY0



Data sheet

LOGO!Power/1AC/12VDC/4.5A

LOGO! Power 12 V / 4.5 A stabilized power supply input: 100-240 V AC output: 12 V DC / 4.5 A *Ex approval no longer available*

Input	Input	
Voltage range AC input voltage at DC Wide-range input Yes Overvoltage resistance Mains buffering at lout rated, min. Rated line frequency 1 Rated line frequency 2 Rated line frequency 2 Rated line requency 2 Rated line range input current at rated input voltage 230 V at rated input voltage 230 V As witch-on current limiting (+25 °C), max. Pr. max. Built-in incoming fuse Protection in the mains power input (IEC 898) Recommended miniature circuit breaker: from 10 A characteristic B or from 6 A characteristic C Output Coutput Rated voltage 20 tout put 1 at DC rated value 12 V • output voltage at output 1 at DC rated value 12 V • output voltage at output 1 at DC rated value 12 V Static load balancing, approx. Static load balancing, approx. Quiyon Residual ripple peak-peak, max. Residual ripple peak-peak, max. Residual ripple peak-peak, max. Power of the recommended miniature circuit breaker: from 10 A characteristic C Output Static mass compensation, approx. Quiyon	Input	1-phase AC or DC
input voltage	Rated voltage value Vin rated	100 240 V
■ at DC Wilde-range input	Voltage range AC	85 264 V
Wilde-range input Yes Overvoltage resistance 300 V AC for 1 s Mains buffering at lout rated, min. 40 ms; at Vin = 187 V Rated line frequency 1 50 Hz Rated line frequency 2 60 Hz Rated line requency 2 60 Hz Rated line range 47 63 Hz input current • at rated input voltage 120 V • at rated input voltage 230 V 0.61 A Switch-on current limiting (+25 °C), max. 50 A I²t, max. 3 A²-s Built-in incoming fuse internal Protection in the mains power input (IEC 898) Recommended miniature circuit breaker: from 10 A characteristic B or from 6 A characteristic C Output Controlled, isolated DC voltage Rated voltage Vout DC 12 V • output voltage at output 1 at DC rated value 12 V Total tolerance, static ± 3 % Static mains compensation, approx. 0.1 % Static bad balancing, approx. 0.1 % Static load balancing, approx. 0.1 % Residual ripple peak-peak, max. 200 mV Residual ripple peak-peak, max. 200 mV Spikes peak-peak, max. (bandwidth: 20 MH	input voltage	
Overvoltage resistance Mains buffering at Vin = 187 V Rated line frequency 1 Rated line frequency 2 Rated line range • at rated input voltage 120 V • at rated input voltage 230 V 8 witch-on current limiting (+25 °C), max. Built-in incoming fuse Protection in the mains power input (IEC 898) Recommended miniature circuit breaker: from 10 A characteristic B or from 6 A characteristic C Output Output Controlled, isolated DC voltage Rated voltage Vout DC • output voltage at output 1 at DC rated value Total tolerance, static ± 3 % Static mains compensation, approx. Static load balancing, approx. Residual ripple peak-peak, max. Residual ripple peak-peak, max. (bandwidth: 20 MHz) Spikes peak-peak procuped of toutput voltage adjustable Yes Output voltage setting Status display Green LED for output voltage OK On/off behavior No overshoot of Vout (soft start)	• at DC	110 300 V
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Rated line frequency 1 Rated line frequency 2 Rated line range input current • at rated input voltage 120 V • at rated input voltage 230 V Switch-on current limiting (+25 °C), max. 19t, max. Built-in incoming fuse Protection in the mains power input (IEC 898) Protection in the mains power input (IEC 898) Recommended miniature circuit breaker: from 10 A characteristic B or from 6 A characteristic C Cutput Output Controlled, isolated DC voltage Rated voltage Vout DC 12 V • output voltage at output 1 at DC rated value Total tolerance, static ± Static mains compensation, approx. Static mains compensation, approx. Static inad balancing, approx. Residual ripple peak-peak, max. Residual ripple peak-peak, max. 200 mV Residual ripple peak-peak, max. Residual ripple peak-peak, max. 200 mV Spikes peak-peak, max. (bandwidth: 20 MHz) Adjustment range 10.5 16.1 V product function output voltage adjustable Yes Output voltage stetting Via potentiometer Status display On/off behavior No overshoot of Vout (soft start) Startup delay, max. 0.5 w	Mains buffering	at Vin = 187 V
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Switch-on current limiting (+25 °C), max. Pt, max. 3 A² ·s Built-in incoming fuse internal Protection in the mains power input (IEC 898) Recommended miniature circuit breaker: from 10 A characteristic B or from 6 A characteristic C Output	 at rated input voltage 120 V 	1.13 A
Pt, max. 3 A²-s Built-in incoming fuse Internal Protection in the mains power input (IEC 898) Recommended miniature circuit breaker: from 10 A characteristic B or from 6 A characteristic C Output Output Controlled, isolated DC voltage Rated voltage Vout DC 12 V • output voltage at output 1 at DC rated value 12 V Total tolerance, static ± 3 % Static mains compensation, approx. 0.1 % Static load balancing, approx. 0.1 % Residual ripple peak-peak, max. 200 mV Residual ripple peak-peak, max. (bandwidth: 20 MHz) 300 mV Spikes peak-peak, max. (bandwidth: 20 MHz) 50 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	 at rated input voltage 230 V 	0.61 A
Built-in incoming fuse Protection in the mains power input (IEC 898) Recommended miniature circuit breaker: from 10 A characteristic B or from 6 A characteristic C Output Output Controlled, isolated DC voltage Rated voltage Vout DC 12 V output voltage at output 1 at DC rated value Total tolerance, static ± 3 % Static mains compensation, approx. 0.1 % Static load balancing, approx. 0.1 % Residual ripple peak-peak, max. Residual ripple peak-peak, typ. Spikes peak-peak, max. (bandwidth: 20 MHz) Spikes peak-peak, typ. (bandwidth: 20 MHz) Spikes peak-peak, typ. (bandwidth: 20 MHz) Adjustment range product function output voltage adjustable Ves Output voltage setting Via potentiometer Status display Green LED for output voltage OK On/off behavior Startup delay, max. 0.5 s	Switch-on current limiting (+25 °C), max.	50 A
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Residual ripple peak-peak, max. Residual ripple peak-peak, typ. Spikes peak-peak, max. (bandwidth: 20 MHz) Spikes peak-peak, typ. (bandwidth: 20 MHz) Spikes peak-peak, typ. (bandwidth: 20 MHz) Adjustment range 10.5 16.1 V product function output voltage adjustable 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	Static mains compensation, approx.	0.1 %
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Adjustment range product function output voltage adjustable 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	Spikes peak-peak, max. (bandwidth: 20 MHz)	300 mV
product function output voltage adjustable Output voltage setting Status display On/off behavior Startup delay, max. Yes Via potentiometer Green LED for output voltage OK No overshoot of Vout (soft start) 0.5 s	Spikes peak-peak, typ. (bandwidth: 20 MHz)	50 mV
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Status display Green LED for output voltage OK On/off behavior No overshoot of Vout (soft start) Startup delay, max. 0.5 s	product function output voltage adjustable	Yes
On/off behavior No overshoot of Vout (soft start) Startup delay, max. 0.5 s	Output voltage setting	via potentiometer
Startup delay, max. 0.5 s	Status display	Green LED for output voltage OK
	On/off behavior	No overshoot of Vout (soft start)
Voltage rise, typ. 100 ms	Startup delay, max.	0.5 s
	Voltage rise, typ.	100 ms

Rated current value lout rated	4.5 A
Current range	0 4.5 A
• Note	+55 +70 °C: Derating 2%/K
supplied active power typical	54 W
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced performance	2
Efficiency	
Efficiency at Vout rated, lout rated, approx.	87.1 %
Power loss at Vout rated, lout rated, approx.	8 W
power loss [W] during no-load operation maximum	0.3 W
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %), max.	0.2 %
Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.	4 %
Load step setting time 10 to 90%, typ.	1 ms
Load step setting time 90 to 10%, typ.	1 ms
Protection and monitoring	
Output overvoltage protection	Yes, according to EN 60950-1
Current limitation, typ.	5 A
property of the output short-circuit proof	Yes
Short-circuit protection	Constant current characteristic
enduring short circuit current RMS value	Constant surront sharastonetts
maximum	5 A
overcurrent overload capability in normal operation	overload capability 150% lout rated typ. 200 ms
Overload/short-circuit indicator	-
measuring point for output current	50 mV =^ 4.5 A
overcurrent overload capability when switching on	150% lout rated typ. 200 ms
Safety	100 % four faced typ. 200 fffs
	Yes
Primary/secondary isolation	
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
Protection class	Class II (without protective conductor)
Degree of protection (EN 60529)	IP20
Approvals	
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, NEC class 2 (acc. to UL 1310)
certificate of suitability NEC Class 2	No
CB approval	Yes
certificate of suitability EAC approval	Yes
Marine approval	ABS, BV, DNV GL, LRS
EMC	
Emitted interference	EN 55022 Class B
Supply harmonics limitation	not applicable
Noise immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
during operation	-25 +70 °C
— Note	with natural convection
during transport	-40 +85 °C
during storage	-40 +85 °C
Humidity class according to EN 60721	Climate class 3K3, 5 95% no condensation
Mechanics	Samuel Sa
	screw.tvne terminals
Connection technology Connections	screw-type terminals
	I. No 1 corew terminal each for 0.5 2.5 mm ² single core/finally
Supply input	L, N: 1 screw terminal each for 0.5 2.5 mm2 single-core/finely stranded
 Output 	+, -: 1 screw terminal 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	53 mm
required spacing	
• top	20 mm
bottom	20 mm
● left	0 mm
● right	0 mm
Weight, approx.	0.2 kg
product feature of the enclosure housing can be lined up	Yes
Installation	Snaps onto DIN rail EN 60715 35x7.5/15, direct mounting in different mounting positions
MTBF at 40 °C	2 566 680 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

