SIEMENS

Data sheet 6EP1322-1LD00

PSU100D 12 V/8.3 A
PSU100D 12 V/8.3 A STABILIZED POWER SUPPLY INPUT: 100-240 V AC OUTPUT: 12 V DC/8.3 A



Input	
Input	1-phase AC
Rated voltage value Vin rated	100 ... 240 V
Voltage range AC	85 ... 264 V
Wide-range input	Yes
Mains buffering at Iout rated, min.	15 ms; at Vin = 115/230 V
Rated line frequency	50 ... 60 Hz
Rated line range	47 ... 63 Hz
Input current	
• at rated input voltage 100 V	2 A
• at rated input voltage 240 V	1.1 A
Switch-on current limiting (+25 °C), max.	75 A
I^2t, max.	5.5 $A^2 \cdot s$
Built-in incoming fuse	internal
Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker: from 10 A characteristic C or from 16 A characteristic B

Output	
Output	Controlled, isolated DC voltage
Rated voltage Vout DC	12 V
Total tolerance, static ±	2 %
Static mains compensation, approx.	0.5 %
Static load balancing, approx.	1 %
Residual ripple peak-peak, max.	100 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	100 mV
Adjustment range	11 ... 14 V

Changes preserved
© Copyright Siemens AG

Product function Output voltage adjustable	Yes
Output voltage setting	via potentiometer
Status display	Green LED for 12 V OK
On/off behavior	Overshoot of Vout < 2 %
Startup delay, max.	1 s
Voltage increase time of the output voltage maximum	30 ms
Rated current value Iout rated	8.3 A
Current range	0 ... 8.3 A
• Note	+50 ... +70 °C: Derating 2.5%/K
Active power supplied typical	100 W
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced performance	2

Efficiency	
Efficiency at Vout rated, Iout rated, approx.	84 %
Power loss at Vout rated, Iout rated, approx.	19 W

Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %), max.	0.5 %
Dynamic load smoothing (Iout: 50/100/50 %), Uout ± typ.	5 %

Protection and monitoring	
Output overvoltage protection	< 17.6 V
Current limitation, typ.	9.9 A
Property of the output Short-circuit proof	Yes
Short-circuit protection	Electronic shutdown, automatic restart
Enduring short circuit current RMS value	
• typical	10 A
Overload/short-circuit indicator	-

Safety	
Primary/secondary isolation	Yes
Galvanic isolation	Safety extra low output voltage Vout according to EN 60950-1
Protection class	Class I
Leakage current	
• maximum	3.5 mA
• typical	1 mA
CE mark	Yes
UL/CSA approval	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus (UL 60950-1, CSA C22.2 No. 60950-1), File E151273
Explosion protection	-
Certificate of suitability IECEx	No

Changes preserved
© Copyright Siemens AG

Certificate of suitability NEC Class 2	No
FM approval	-
CB approval	Yes
Marine approval	-
Degree of protection (EN 60529)	IP20

EMC	
Emitted interference	EN 55022 Class B
Supply harmonics limitation	EN 61000-3-2
Noise immunity	EN 61000-6-2

Operating data	
Ambient temperature	
• during operation	-10 ... +70 °C
— Note	with natural convection
• during transport	-40 ... +85 °C
• during storage	-40 ... +85 °C

Mechanics	
Connection technology	screw-type terminals
Connections	
• Supply input	L, N, PE: 1 screw terminal each for 0.3 ... 1.3 mm² single-core/finely stranded
• Output	+, -: 2 screw terminals each for 0.3 ... 1.3 mm²
• Auxiliary	-
Width of the enclosure	97 mm
Height of the enclosure	158 mm
Depth of the enclosure	38 mm
Weight, approx.	0.57 kg
Installation	Wall mounting
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

Changes preserved
© Copyright Siemens AG