

PSU100D 24 V/6.2 A
 PSU100D 24 V/6,2 A Stabilized power supply input: 100-240 V AC
 output: 24 V DC/6.2 A



Input	
Input	1-phase AC
Rated voltage value V_{in} rated	100 ... 240 V
Voltage range AC	85 ... 264 V
Wide-range input	Yes
Mains buffering at I_{out} rated, min.	15 ms; at $V_{in} = 115/230$ V
Rated line frequency 1	50 Hz
Rated line frequency 2	60 Hz
Rated line range	47 ... 63 Hz
Input current	
• at rated input voltage 100 V	3.1 A
• at rated input voltage 240 V	2 A
Switch-on current limiting (+25 °C), max.	75 A
I^2t , max.	6.5 A ² ·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	24 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	22 ... 28 V
Product function Output voltage adjustable	Yes
Output voltage setting	via potentiometer
Status display	Green LED for 24 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	6.2 A
Current range	0 ... 6.2 A
• Note	+50 ... +70 °C: Derating 2.5%/K
Supplied active power typical	150 W
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced performance	2

Efficiency	
Efficiency at Vout rated, Iout rated, approx.	86 %
Power loss at Vout rated, Iout rated, approx.	24 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	< 35 V
Current limitation, typ.	7.4 A
Property of the output Short-circuit proof	Yes
Short-circuit protection	Electronic shutdown, automatic restart
Enduring short circuit current RMS value	
• typical	16 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/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	-
FM approval	-
CB approval	Yes
Marine approval	-
Degree of protection (EN 60529)	IP20

EMC

Emitted interference	EN 55022 Class B
Supply harmonics limitation	-
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 mm ² single-core/finely stranded
• Output	+, -: 2 screw terminals each for 0.3 ... 1.3 mm ²
• Auxiliary	-
Width of the enclosure	97 mm
Height of the enclosure	178 mm
Depth of the enclosure	38 mm
Required spacing	
• top	20 mm
• bottom	0 mm
• left	20 mm
• right	20 mm
Weight, approx.	0.55 kg
Installation	Wall mounting
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)