

Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker: from 16 A characteristic B or from 10 A characteristic C
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Output

Output	Controlled, isolated DC voltage
Rated voltage Vout DC	24 V
Total tolerance, static \pm	3 %
Static mains compensation, approx.	0.1 %
Static load balancing, approx.	0.2 %
Residual ripple peak-peak, max.	200 mV
Residual ripple peak-peak, typ.	25 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	300 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	20 mV
Adjustment range	22.2 ... 26.4 V
Product function Output voltage adjustable	Yes
Output voltage setting	via potentiometer
Status display	Green LED for output voltage OK
On/off behavior	Overshoot of Vout approx. 5 %
Startup delay, max.	0.6 s
Voltage rise, typ.	90 ms
Rated current value Iout rated	1.3 A
Current range	0 ... 1.3 A
• Note	+60 ... +70 °C: Derating 0.8%/K; at +70 °C Iout rated 1.2 A
Supplied active power typical	30 W
Short-term overload current	
• at short-circuit during operation typical	3.1 A
Parallel switching for enhanced performance	Yes; Start-up with single nominal load only
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.	4.5 W
Power loss [W] during no-load operation maximum	0.75 W

Closed-loop control

Dynamic mains compensation (Vin rated \pm 15 %), max.	0.1 %
Dynamic load smoothing (Iout: 10/90/10 %), Uout \pm typ.	3 %
Load step setting time 10 to 90%, typ.	5 ms
Load step setting time 90 to 10%, typ.	5 ms

Protection and monitoring

Output overvoltage protection	Yes, according to EN 60950-1
Current limitation, typ.	1.4 A

Property of the output Short-circuit proof	Yes
Short-circuit protection	Electronic shutdown, automatic restart
Overload/short-circuit indicator	-

Safety

Primary/secondary isolation	Yes
Galvanic isolation	Safety extra-low output voltage U _{out} acc. to EN 60950-1 and EN 50178
Protection class	Class I
Leakage current	
• maximum	3.5 mA
• typical	0.4 mA
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)
Explosion protection	IECEx Ex nA IIC T4 Gc; ATEX (EX) II 3G Ex nA IIC T4; cCSAus (CSA C22.2 No. 213, ANSI/ISA-12.12.01) Class I, Div. 2, Group ABCD, T4
FM approval	-
CB approval	Yes
Marine approval	ABS, DNV GL

EMC

Emitted interference	EN 55022 Class B
Supply harmonics limitation	not applicable
Noise immunity	EN 61000-6-2

environmental conditions

Ambient temperature	
• during operation	-20 ... +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

Connection technology	screw-type terminals
Connections	
• Supply input	L, N, PE: Removable screw terminal, each for 1 x 0.5 ... 2.5 mm ²
• Output	+ : 1 screw terminal for 0.5 ... 2.5 mm ² ; - : 2 screw terminals for 0.5 ... 2.5 mm ²
• Auxiliary	-
Width of the enclosure	30 mm

Height of the enclosure	80 mm
Depth of the enclosure	100 mm
Required spacing	
• top	50 mm
• bottom	50 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	Snaps onto DIN rail EN 60715 35x7.5/15
Electrical accessories	Removable spring-type terminal 6EP1971-5BA00
MTBF at 40 °C	3 838 624 h
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)