

Order number:

EPN 231506/F



Description	
	Power Supply 15 V / 6 A Mounting option for DIN rail or wall mounting; input switchable between 120 and 230 V AC; Mains hold-up time 60 ms; output permanently short-circuit-proof and SELV according to EN 60950; overtemperature protection; primary and secondary overvoltage protection; output adjustable; can be connected in parallel with current sharing; power boost for short-term overload 150-200% I _{nom} ; Power-Good signal

Input	
Mains voltage range U _{input}	AC 187 – 264 V, 50/60 Hz with mechanical switch to AC 94 – 138 V
Efficiency	80-87%
Inrush current limitation	≤ 16/25 A peak typ. – in cold state ≤ 30/35 A peak typ. – in warm state
Internal fuse	2 A T / 3.15 A T, 250 V

Output	
Output voltage range (U _{out})	12 - 15 V
Maximum output power	70 W / 120 W
Rated current	6.5 A
Status indication	green LED for U _{out} OK, red LED for fault
Residual ripple	< 30 mVpp
Noise voltage	< 50 mVpp
Overload behavior (Power Boost)	min. 400 ms up to 1.5 x I _{nom} constantly recurring
Temperature coefficient	0.025% / K
Start-up / Shut-down behavior	No overshoot of U _{out} (soft-start)
Start-up delay	< 0.7s
Rise time	< 30 ms

Regulation	
Line regulation	< 0.1% for U _{out_min} – U _{in_max}
Load regulation	< 0.2% for U _{out} at I _a 0-100% (0.5% at 5.1 V) in single mode < 4% for U _{out} I _a 0-100% in parallel operation
Settling time	< 0.5 ms with I _a 20-80%

Protection and Monitoring	
Overvoltage protection	105-125% from U _{out_max}
Current limitation	105-120% I _{nom} , output permanently short-circuit proof
Overtemperature protection	Shutdown if internal temperature is too high, periodic restart
Hold-up time (at mains failure)	min. 60 ms
Power-Good signal ("DC OK")	Relay contact (< 60 V / 0.2 A), switching Output "High" (=U _{out}), if
control signal OFF	U _a > 80-85% U _{nom} Output allows driving an external relay to be connected between "Power-Good" and output.

Security	
	IEC 60950 / EN 60950 / VDE 0805 / Protection class I, UL 508 listed / UL 60950 / CSA 22.2-60950 EN 60204 / EN 50178 Pollution degree 2

EMC	
Power factor correction (PFC)	EN 61000-3-2 Class A
Flicker	EN 61000-3-3
Immunity	EN 61000-6-2, EN 61000-4-2 (severity level 4), EN 61000-4-3 (interference level 10 V/m), EN 61000-4-4 (severity level 4), EN 61000-4-5 (severity level 4), EN 61000-4-6 (interference level 10 V/m), EN 61000-4-11
Emission	EN 50081-1, EN 55022 Class B Radio interference depending on installation

Operating data	
Temperature range	0 °C...45 °C, with free convection
	Airflow through the power supply (bottom to top) must not be obstructed during installation. The minimum distance to the ventilation slots is 20 mm. Fire protection must be ensured by the enclosing system.

Mechanics	
Connection	Mains input: 3-pole, pluggable terminal block; stranded/solid copper wire 1 to 2.5 mm ² ; tightening torque 0.5-0.8 Nm Load output: 5-pole, pluggable terminal block; stranded/solid copper wire 1 to 2.5 mm ² ; tightening torque 0.5-0.8 Nm Power-Good signal or Remote on/off
Installation	All units can be snapped onto 35 mm DIN rails according to EN 50022, with rail material thickness of 1 to 2.5 mm, or mounted to a side wall using mounting brackets.
Weight	0.7 kg
Dimensions (WxHxD)	77x126x128 mm

Description	
PE – Protective Earth \oplus	Must be connected to the protective conductor of the mains supply!
L1/N	Mains terminal
+ / -	Load terminal
Switching from single to parallel operation	via front-panel switch
Derating (temperature-dependent power reduction)	<p>Strombegrenzungskennlinie (Power-Boost s.o.)</p>

Dimensions	<p>Normschienenmontage</p> <p>Wandmontage</p>
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