



Power Supply with High Isolation Transformer Series TS 28 V DC / 80 A (24 V DC / 100 A) Plus 230 V AC-Output

type number 00950



Description

This power supply / battery charger based on a new concept with a high frequency transformer which also provides the high isolation (reinforced) between input and output.

The new technology allows a weight reduction of up to 70 % (compared with existing 50 Hz / 60 Hz transformers).

The internal high frequency transformer generates also an additional 230 V AC output at about 1 kVA. Output power can be shared between the 24 V DC and 230 V AC output. RCD-Protection is optional available.

Technical Data:

Input: (With RCD-Device)

Nominal voltage:	230 V AC ± 15 %
Line frequency:	45 Hz to 60 Hz
Consumption:	< 16 A
Inrush current:	< 30 A
Harmonics (current):	Power factor corrected to EN 61000-3-2
Power factor:	> 0.95

Output: (Low voltage)

Output voltage:	24 V DC (adj. 24-28 V DC)
Output tolerance:	-4 % / +0 % (0 –100 % load)
Output current:	80 / 100 A (depending on model)
Output protection:	Current limit (110 % of I_{Nom}) Short circuit protection Over voltage shutdown (125 %) Over temperature shutdown with automatic recovery
Minimum load:	no minimum load required
Efficiency:	typ. 85 % – 88 % at 230 V AC

Output: (230 V AC / 50 Hz)

Output voltage:	230 V AC 50 Hz 110 V AC optional
Output tolerance:	± 8 %
Output current:	4 A - 6 A
Output protection:	Short circuit protection Over voltage shutdown Over temperature shutdown with automatic recovery
Minimum load:	no minimum load required
Efficiency:	typ. 89 % at 230 V AC
Isolation voltage:	4000 V AC (input – output) 3000 V AC (chassis – line)
Protection class:	II no PE

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Not recommended for new design!

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Signals / Alarms:

Optical indicator:	Green LED: Power ok Red LED: Battery low White LED: 230 V AC-Out active
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Mechanical Specifications:

Material:	Aluminium
Dimensions:	360 x 500 x 145mm (W x D x H) (overall dimensions)
Weight:	< 20 kg
Finish / Color:	Powder coating, green RAL 6031 Hr or TBD

Connectors:

Line input:	ECTA 133, 3 Pin Connector
Output:	CEE-Connector (3 pin) or VG96926
Alarm:	SJT00RT, 6 Pin Connector
Output DC:	High current studs M8 isolated
Grounding terminal:	M8 on front or rear

Environmental Data:

Temperature:	-20 °C to +50 °C (operating) -40 °C to +85 °C (storage)
Vibration / Shock:	TBD
Protection:	IP 65 (EN 60529)
Line Filter / EMC:	FCC / EN / VG / MIL Standards / TBD

Option:

Input voltage:	400 V AC 50 Hz
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This is a preliminary data sheet.
Specifications are subjected to change.

Ask for further technical information!
Functional or interface modifications can be realized on request. Each configuration change causes a new type number.

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