

Input

Input voltage range	175-264VAC
Frequency	40-70Hz (16-400Hz possible on request)
Inrush current	max. 35A, limited by NTC 10Ω
Fuse	10 AT externally
No-load input current	app. 30mA at 230VAC
Switch-on time	typ. 2s
Hold-up time	typ. 15ms at 230VAC
Turn on/off	≤ 166VAC / ≥ 277VAC
Spikes	acc. EN 61000-4-5, Class 3
Bursts	acc. EN 61000-4-4, Level 3

Output

Output voltage	for 24VDC battery (adjustable by factory from 24VDC to 30VDC depending on battery type)
Output current	30ADC
Line regulation,	
Load regulation	±2%, measured directly at the connection terminal
Ripple	< 250mV p-p typ without battery
Response time	typ. 2ms
Load transient 10-100-10%	typ. 6%
On/off overshoot	none
Over voltage protection	> 33 VDC switch off, not automatic return, no effect on external over voltage
Sense lines	Externally, on connector (function without connected Sense possible)
Parallel-/redundant	active ORing decoupling. The ORing FET can be monitored
Connection	the current sharing for 2 units will be approx. 30/70%
Active current sharing	using the active current sharing in a parallel connection, the communication between the units is done by the use of a current share bus. Thereby a current symmetry off < 1.5A can be achieved. It's possible to connect up to 4 units in parallel. The length of the interconnection wire does not exceed 1m.
Alarm Signals	over potential free contacts, when Uout is <20VDC (NOC=open, NCC=closed).
Charging characteristic	IU
Boost charge	Temperature-controlled charging characteristic via external NTC via external remote control voltage

General

Operating temperature	-25°C to +55°C Derating 2,5% /°C for temperature +55°C up to max. 75°C necessary.
Over temperature protection	unit switch off if internally temperature is too high, automatically switch on after cooling
Storage temperature	-40°C to +85°C
Humidity	75% without condensation,
Efficiency at full load	>90%,
Power dissipation	app. 170W
Over temperature protection	shut off, at hot spot off about 100°C. Automatically restart after cooling down.

Construction

Isolation	acc. EN 50178, EN 60950, Class I
RFI-interference	acc. EN 50178, EN 60950 SELV
EMC / CE	acc. EN 55011 Class "A" EN 61000-6-4, EN 61000-6-2 Grounding of input and/or output potentials and/or connecting input to output may cause changes of EMC and/or ripple values.
Protection class	I acc. EN 61140
Visual Indications	green LED Uin = Input voltage on green LED Uout = Output voltage ok (DC ok.)
Case	for chassis mount, Alu varnished, RAL7035
Connection	plug-in terminals on front panel
Weight	app. 2,5kg