

Input

Input voltage range	80-160VDC
Inrush current	max. 32ADC, limited by 5Ω - NTC
Fuse	16 AT externally
No load input current	ca. 68mA at 110VDC
Switch on delay time	2s
Hold up time	>15ms at 110VDC and nominal output load
Polarity protection	yes
Turn on/off	> 76VDC / >168VDC
Spikes	acc. EN 61000-4-5, Class 3
Bursts	acc. EN 61000-4-4, Level 3

Output

Output voltage	48VDC standard setting, (adjustable from 42VDC to 56VDC only by factory).
Output current	16ADC up to output voltage 50VDC, U _{out} > 50VDC 15ADC
Boost-Function	max. output current app. 64ADC for 10ms ≤ t ≤ 15ms
Overload protection	electronically - UI- characteristic
Short circuit protection	electronically
Voltage regulation/ Load regulation	± 2%, measured directly on the connector
Ripple	< 500mV _{ss} typ.
Load transient 10-90-10%	typ. 6%
On/off overshoot	none
Over voltage protection	switch off at U _{out} >60VDC, not automatic restart, no protection for external over voltage
Sense lines	connected internally (optionally can be executed on connector)
Parallel-/redundant Connection	active ORing decoupling. The ORing FET can be monitored 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 U _{out} is <40VDC (NOC=open, NCC=closed).

General Data

Operating temperature	-20°C to +55°C
Current derating	from +55°C to +75°C about 2,5%/°C with a free convection. (The current reduction is not automatically. That's why the user must take care about)
Storage temperature	-40°C to +85°C
Humidity	75% without condensation
Efficiency	
at nominal load	>90%
Power dissipation	max.100W
Over temperature protection	shut off, at hot spot off about 100°C. Automatically restart after cooling down.

Construction / Isolation

RFI interference	acc. EN 61010, SELV
EMC / CE	acc. EN 55011"A" acc. EN 61000-6-4, EN 61000-6-2 Grounding the input and/or output potentials, connecting input to output, may cause changes in EMC or ripple levels.
Protection class	I acc. EN 61140
Visual Indications	green LED U _{in} = Input voltage on green LED U _{out} = Output voltage ok (DC ok.)
Case	for chassis mount IP 20, Alu varnished, RAL7035
Connection	plug in terminals on the front panel. The external connector is part of delivery.
Weight	app. 4kg