

Input

Input voltage range	160-180VDC
Inrush current	max. 40ADC, limited by 7Ω - NTC
Fuse	10 AT externally
No load input current	ca. 30mA at 220VDC
Switch on delay time	2s
Hold up time	>15ms at 220VDC and nominal output load
Polarity protection	yes
Turn on/off	> 144VDC / >294VDC
Spikes	acc. EN 61000-4-5, Class 3
Bursts	acc. EN 61000-4-4, Level 3

Output

Output voltage	220VDC standard setting, (adjustable from 200VDC to 250VDC only by factory).
Output current	3,3ADC up to output voltage 250VDC
Boost-Function	max. output current app. 7,2ADC for $10\text{ms} \leq t \leq 15\text{ms}$
Overload protection	electronically - UI- characteristic
Short circuit protection	electronically
Voltage regulation/ Load regulation	$\pm 2\%$, measured directly on the connector
Ripple	< 2200mVss typ.
Load transient 10-90-10%	typ. 6%
On/off overshoot	none
Over voltage protection	switch off at $U_{out} > 275\text{VDC}$, 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
Active current sharing	the current sharing for 2 units will be approx. 30/70% 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 <175VDC (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