

Input

Input voltage range	80-160VDC
Inrush current	max. 23ADC limited by NTC 7Ω
Fuse	16 AT externally
No-load input current	app. 56mA at 110VDC
Switch-on time	typ. 2s
Hold-up time	typ. 15ms at 110VDC
Polarity protection	yes
Turn on/off	≤ 76 VDC / ≥ 168VDC
Spikes	acc. EN 61000-4-5, Class 3
Bursts	acc. EN 61000-4-4, Level 3

Output

Output voltage	24VDC standard setting, (adjustable from 21VDC to 28VDC only by factory).
Output current	16ADC up to U _{out} 28VDC
Boost Function	max. output current app. 64ADC for 10ms ≤ t ≤ 15ms
Line regulation;	< ±2%, measured directly at the connection terminal
Load regulation	
Ripple	<250mV p-p typ
Response time	typ. 2ms
Load transient 10-100-10%	typ. 6%
On/off overshoot	none
Overload protection	electronically
Over voltage protection	> 30 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 U _{out} is <20VDC (NOC=open, NCC=closed).

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. 88W
Over temperature protection	shut off, at hot spot off about 100°C. Automatically restart after cooling down.

Construction / Isolation

RFI-interference	acc. EN 55011 Class "A"
EMC / CE	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 U _{in} = Input voltage on green LED U _{out} = Output voltage ok (DC ok.)
Case	for chassis mount, Alu varnished, RAL7035
Connection	plug-in terminals on front panel
Weight	app. 2,5kg