

## Input

Input voltage range	185 - 280VDC
Inrush current	max. 56A, limited by 5Ω - NTC
Fuse	20AT or MCB 20A characteristic K externally
No load input current	ca. 100mA at 220VDC
Switch on delay time	2s
Hold up time	>10ms at 220VDC and nominal output load
Polarity protection	yes (internal diode with external fuse or MCB)
Turn on	> 175VDC
Turn off	< 175VDC / <300 VDC
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	68ADC up to output voltage 25VDC, Vout > 25VDC 62ADC
Boost-Function	3-4 x. output current (min. 205ADC) for 10ms ≤ t ≤ 15ms
Overload protection	electronically - UI- characteristic
Short circuit protection	electronically
Voltage regulation/ Load regulation	± 2%, measured directly on the connector
Ripple	< 240mVss typ.
Load transient 10-90-10%	typ. 6%
On/off overshoot	none
Over voltage protection	switch off at Vout >30VDC, not automatic restart, no protection for external over voltage
Sense lines	internally connected (optional on connector)
Parallel-/redundant Connection	active ORing decoupling.
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 < 5% Iout nom. can be achieved. It's possible to connect up to 8 units in parallel.
LED's	the green <b>LED Uin</b> at front is lightning if input voltage is ok., (the LED is flashing if input voltage is ok. but the primary inhibit is open) the green <b>LED Uout</b> at front is lightning if output voltage is ok., (the LED is flashing if input voltage is ok. but the 24VDC inhibit is active) the red <b>LED Failure</b> is lightning if unit fails (see description alarm)
Alarm Signals	over potential free relay contacts NOC/NCC rating max. 250VDC; 0,5ADC or 264VAC; 3AAC interface IO-Link optional (alarm by failures: input voltage out of tolerance, overtemperature, internal over voltage (OVP active), overload at output, unit fails).
Inhibit	- primary for turn on the unit, contacts 3 and 4 on connector X1 must be closed by switch or wire. (Connection is made by factory. For use primary inhibit, remove the connection and add for example a switch) <b>Attention</b> no galvanic isolation, <b>connected with Input</b> , On / Off levels            contacts 3 and 4 closed - unit "On" output voltage is normal contacts 3 and 4 open - unit "Off" out voltage 0VDC

-Inhibit 24VDC (Connector X2)  
digital input, Unom. 24VDC  
galvanic isolated 750 VAC and 1000 VDC permanently  
connector 2-wire  
on / off levels signal "0": 0-5VDC; output voltage is normal  
signal "1": 15-30VDC; output voltage 0VDC  
Input impedance 1200Ω, input current max 25mA

## General

Operating temperature -20°C to +55°C  
Current derating automatically from +55°C to +75°C about 2,5%/°C with a free convection.  
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. 200W  
Over temperature protection shut off, at hot spot off about 110°C. Automatically restart after cooling down.

Construction EN 61010, SELV  
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  
Case for chassis mount IP 20  
Connection plug-in terminals on front panel (plus and minus are 2-pol. and must be connected in parallel. If the units are used in parallel operation you have to provide an external tap).  
Weight app. 10kg