

## Input

Input voltage range	50 - 280VDC
Inrush current appr.	limited by 5Ω - NTC
	At Vin:
	60VDC 12A
	110VDC 22A
	220VDC 22A
Fuse	20AT or MCB 20A, characteristic K externally
No load input current appr.	at Vin:
	60VDC 300mA
	110VDC 160mA
	220VDC 100mA
Switch on delay time	2s
Hold up time	>8ms (typ.10ms) at nominal output load
Polarity protection	yes
Turn on	>47VDC
Turn off	<44VDC / >285VDC
Spikes	acc. EN 61000-4-5, Class 3
Bursts	acc. EN 61000-4-4, Level 3

## Output

Output voltage	110VDC standard setting, (adjustable from 100VDC to 130VDC only by factory).
Output current	<b>7ADC</b> at Vin >90VDC Vout ≤ 122VDC <b>6ADC</b> at Vin >90VDC Vout, >122VDC <b>4,5ADC</b> at Vin 50 - 90VDC to Vout 130VDC
Boost-Function	3-4 x. output current (min. 21A) for 10ms ≤ t ≤ 15ms
Overload protection	electronically - UI- characteristic
Short circuit protection	electronically
Voltage regulation/	
Load regulation	± 2%, measured directly on the connector
Ripple	<1100mVss typ.
Load transient 10-90-10%	typ. 6%
On/off overshoot	none
Over voltage protection	switch off at Vout >145VDC, 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% lout 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 Data

Operating temperature -20°C to +55°C  
Current derating automatically from +55°C to +75°C about 2,5%/°C with a free convection.  
Storage temperature -40°C to +85°C  
Humidity 75% without condensation  
Efficiency  
at nominal load >90%  
Power dissipation max.85W  
Over temperature protection shut off, at hot spot off about 110°C. Automatically restart after cooling down.  
Construction acc. EN 61010  
RFI interference acc. EN 55011"A"  
EMC / CE 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  
Case for chassis mount IP 20  
Connection plug-in terminals on front panel  
Weight app. 7,5kg