

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	24VDC standard setting, (adjustable from 21VDC to 28VDC only by factory).
Output current	32ADC at Vin >90VDC Vout ≤ 25VDC 27ADC at Vin >90VDC Vout, >25VDC 21ADC at Vin 50 - 90VDC to Vout 28VDC
Boost-Function	3-4 x. output current (min. 96A) 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% lout nom. can be achieved. It's possible to connect up to 8 units in parallel.
LED's	the green LED Uin 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 LED Uout 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 LED Failure 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) Attention no galvanic isolation, connected with Input , 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, SELV
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