

Input

Input voltage range	90-140VDC
Inrush current	max. 80A, limited by 2Ω - NTC
Fuse	30AT or MCB 32A, characteristic K externally
No load input current	ca. 150mA at 110VDC
Switch on delay time	2s
Hold up time	>10ms at 110VDC and nominal output load
Polarity protection	yes (internal diode with external fuse or MCB)
Turn on	> 85VDC
Turn off	< 85VDC / >150 VDC
Spikes	acc. EN 61000-4-5, Class 3
Bursts	acc. EN 61000-4-4, Level 3

Output

Output voltage	48VDC standard setting, (adjustable from 42VDC to 56VDC only by factory).
Output current	40ADC up to output voltage 50VDC, $V_{out} > 50VDC$ 35ADC
Boost-Function	3-4 x. output current (min. 120ADC) for $10ms \leq t \leq 15ms$
Overload protection	electronically - UI- characteristic
Short circuit protection	electronically
Voltage regulation/ Load regulation	$\pm 2\%$, measured directly on the connector
Ripple	< 500mV _{SS} typ.
Load transient 10-90-10%	typ. 6%
On/off overshoot	none
Over voltage protection	switch off at $V_{out} > 60VDC$, 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% $I_{out\ nom}$. 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

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
Weight app. 10kg