

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 220VDC standard setting, (adjustable from 200VDC to 250VDC only by factory).
 Output current **3,5ADC** at Vin >90VDC Vout ≤ 222VDC

3ADC at Vin >90VDC Vout, >222VDC
2,5ADC at Vin 50 - 90VDC to Vout 250VDC
 Boost-Function 3-4 x. output current (min. 10,5A) for 10ms ≤ t ≤ 15ms
 Overload protection electronically - UI- characteristic
 Short circuit protection electronically
 Voltage regulation/
 Load regulation ± 2%, measured directly on the connector
 Ripple <2200mVss typ.
 Load transient 10-90-10% typ. 6%
 On/off overshoot none
 Over voltage protection switch off at Vout >275VDC, 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
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