

DDC7010

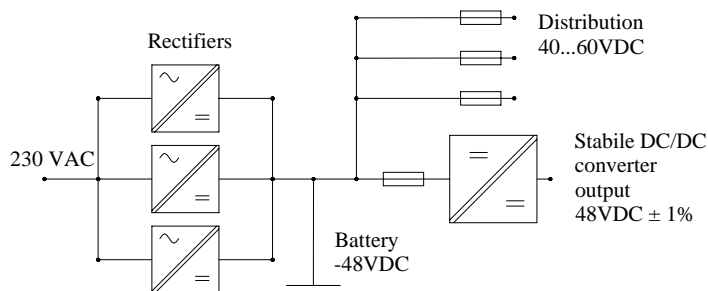
48VDC / 48VDC 100W Converter for Telecommunications



- Compact size
- Easy installation to DIN-rail or wall
- Galvanic isolation
- Parallel connection to increase power
- Power fail relay alarm
- EMC EN55022B

Typical applications:

- Stabilise the 40...60VDC output of rectifier system for sensitive loads
- Supply for negative grounded systems -48VDC -> +48VDC, galvanic isolation



INPUT

Voltage	36...60VDC
Efficiency ($U_{in} = 48VDC$, $I_{out} = 2A$)	>82%
Safety	According to EN60950, Class I
Hold up time ($U_{in} = 48VDC$, $I_{out} = 2A$)	>20ms
Isolation	
Input / ground	500VDC
Input / outputs	3000VDC
Output / ground	3000VDC
Inrush current protection	Limited by NTC 7R 5A
Over voltage protection	VDR 60V 15J
Input current protection	Fuse T4A, high breaking
Under voltage shut down	$U_{in} < 36VDC$

OUTPUT 48V 2A 100W

Nominal output voltage	48VDC
Factory setting (50% load)	48.05VDC
Ripple voltage ($f = 20Hz...300kHz$, $T_{amb} = 25^{\circ}C$)	< 10mV _{rms}
Load regulation ($I_{out} = 0...100%$)	+/- 0.5 %
Line regulation ($U_{inmin}...U_{inmax}$)	+/- 0.1 %
Temperature coefficient	< 0.02 % / °C
Output current	2A
Current limit	< 3A
Short circuit current	< 5A, short circuit proof



POWERNET



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EMC

Radio interference	EN 55022, class B
Electrostatic discharge immunity	EN 61000-4-2, 8kV air / 4kV contact
Radiated electromagnetic field immunity, AM	ENV 50140 (EN 61000-4-3), 10V/m
Radiated electromagnetic field immunity, pulse modulated	ENV 50204, 10V/m
Electrical fast transient immunity	EN 61000-4-4, 2kV / 1kV

Approvals CE marking

INPUT SWITCH

SPST rocker switch on the front panel.

INPUT OK INDICATION

A green LED is provided on the front panel and will be lit when the input is ON.

OUTPUT OK INDICATION

A green LED is provided on the front panel and will be lit when the output is OK.

POWER FAIL ALARM RELAY

The relay monitors the state of the output voltage and will be energised under normal working conditions and de-energise under unit failure. Common, NO and NC outputs available.

MECHANICAL

DIN or Wall mounting	
Dimensions (excluding the mating connectors)	148 x 66 x 113mm (W x H x D)
Weight	0.8 kg
Enclosure	Steel / Aluminum cabinet, IP20

CONNECTION

Input 3-pole PCB mounting terminal block, R7.62mm
 1 PE
 2 +
 3 -

Output 5-pole PCB mounting terminal block, R5.08mm
 1 OUTPUT -
 2 OUTPUT +
 3 ALARM, NC
 4 ALARM, NO
 5 ALARM, COMMON

ENVIRONMENTAL

Temperature range	Storage	-40°C...+75 °C
	Operation	-40°C...+55 °C, full output power
Humidity		85% RH IEC68-2-30
Cooling		Natural convection
Vibration & shocks		ETS 300 019-2-4, class 4M5