

DC DC Converter DD 48V-2300B

Description

The DDC 2300B DC / DC converter shelf series belongs to the Delta DDC product series. The 2Ux2U size modular architecture enables the possibility to easily create system solutions. This high power density system is ideal for space critical applications.

Key feature of this specially designed DCDC Converter is to enhance or to increase the voltage during low operating voltage range of the system when load is operating on Battery or Current limit. So this will help to power up the equipment at remote end mounted on tower and dramatically reduced the cable size and help to overcome the limitation of operating the equipment on lower voltage operating range.

To minimize the loss, it is designed with special Bypass function and during normal operating voltage it directly connect site or battery voltage to remote equipment as well.

In addition, easy installation and expandability add to the success of the system. Delta is known for quality and product reliability, and to this solution has been added cost effectiveness.

The shelf systems provide full system function integration with the available simple alarm board option, it is possible to create simple alarm logic for monitoring purposes of the DC/DC converters and load distribution fuses.

Main features

- Energy saving – high efficiency
- Space saving – high power density
- Applicable in outdoor - extended temperature range
- Bypass option for loss less operation
- Optional simple alarm interface
- Easy installation, commissioning and maintenance
- Settable output voltage.

Applications

- Wireless applications
- Transmission
- Outdoor



Our product portfolio includes both indoor and outdoor power systems building on extensive R&D, modular production and customization. InD and OutD categories with CellD, MidD and CabD series can meet any of your size and location requirements.

DC DC Converter DD 48V-2300W

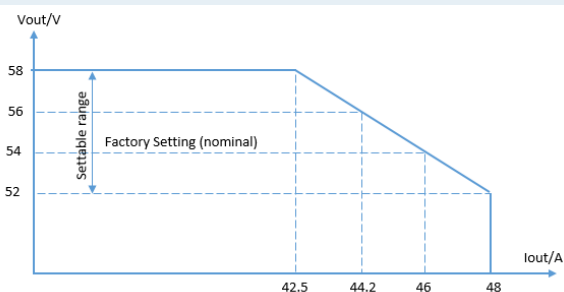
Technical Specification

General	
Efficiency	95 %
Safety	<ul style="list-style-type: none"> EN / IEC 60950 UL 60950 CAN / CSA - C22.2
Cooling	Fan cooled
MTBF	> 1'000'000 h
Acoustic noise	52 dB(A)

Input	
Voltage Range	40 - 60 V
EMI conducted	EN 55022, class A
Mains connector	Rear side
Low Voltage Protection	40 V
High Voltage Protection	60 +/- 0.25V

Output	
Voltage, nominal	54 V
Output Settable range	52V-58V
Bypass Range	52V to 58V
Overvoltage protection	58 – 59.5 V _{dc}
Ripple	≤ 100 mV _{p-p}
Psophometric noise	≤ 2 mV _{rms} (weighted)
Output Current,	48 A _{dc} @ 48V _{OUT}
Power limit	2300 W
Output connector	Rear side

Output characteristics:



User Interface	
Status Indication	LED «O.K.» LED «COM» LED «Bypass» LED «Fault»

Mechanics	
Width, overall	82 mm
Height, overall	83.4 mm
Depth, overall	378 mm
Weight	2.5 kg

Environment	
Operating temperature	-25 ... +75°C (Power de-rating >55°C)
Relative humidity	95 % max, non cond.

* Subject to change due to technical progress.



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