



# The DCS series ...

## Converter DD 48 V - 480 W - A



### Features

- **Module design for scalable, cost effective expansion**
- **High efficiency**
- **Automatic load share, N+1 redundancy**
- **Hot swappable, no system shutdown for maintenance**
- **Reverse polarity protection design**
- **EMC Class B**
- **UL/cUL, TUV/CE Certificated**

### Applications

- **3G Co-station requirement**

### Description

Delta DD 48 V - 480 W - A is a hot-pluggable, fan-cooled converter which converts typical 24 Vdc input into -48 Vdc for various telecommunication applications. The high power density DD module employs the start-of-the-art technology and provides high performance in efficiency, power density and extended operation temperature range.

The typical application for this converter is 3G co-station environments, which is a perfect solution for core network components, telecommunications networks and data networks.



## DD 48 V - 480 W - A: Technical specifications

### General

Efficiency	> 83 %
Safety	EN 60950 UL 1950 CAN/CSA-C22.2 No.950-95 EN 55022, class B
EMI, radiated Compliant with	EN 55022, class B
Cooling	Fan cooled
Acoustic noise	55 dB(A)
MTBF	> 150 K hours

### Input

Voltage range	20 ... 30 V <sub>dc</sub>
Inrush current	< 50 A
Current maximum	30 A
EMI, conducted Compliant with	EN55022, class B
Mains connector	Rear side
Input protection	Breaker 60 A x 1
Input switch	Yes
Polarity protection	Yes

### Output

Voltage, nominal	48 V <sub>dc</sub>
Voltage adjust range	42 ... 57.5 V <sub>dc</sub>
Load regulation	< ± 1 V
Line regulation	< ± 0.3 %
Overvoltage protection	59 ± 1V
Ripple	£ 100 mV <sub>p-p</sub>
Current limit, nominal	A <sub>dc</sub> ± 5%
Load sharing	< ± 5%
Power limit	480 W
Output connector	Rear side
Short circuit protection	Yes

### User Interface

Status indication	LED «DC O.K.» LED «50% LOAD» LED «100% LOAD» LED «Converter Fail Alarm» LED «Fan Fail»
O/P Voltage Adjustment	Variable Resistor

### Mechanics

Width, overall	5.1" / 130 mm
Depth, overall	11.7" / 297 mm
Height, overall	3.1" / 80 mm
Weight	2.22 lb / 1 kg

### Environment

Operating temperature	0 ... + 50 °C
Relative humidity	95 % max, non condensing
Altitude	- 500 ~ 10000 feet

\*Specifications are subject to change due to technical progress