



The DD 1300 series ...

Converter DD 55 V - 1300 W - A



Features

- Compact size (9.1W/in³) and light weight
- High efficiency 88 %
- Hot swappable, no system shutdown for maintenance
- Wide operation temperature: -10~60 °C
- Reverse polarity protection design
- EMC Class B
- UL/cUL, TUV/CE Certificated

Applications

- 3G Co-station requirement

Description

Delta DD 55 V - 1300 W - A is a hot-pluggable, fan-cooled converter which converts typical 24 Vdc input into -55 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. Up to 6 DD power modules can be equipped into one 19" width power shelf and can provide total 7.8KW output power.

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 55 V - 1300 W - A: Technical specifications

General

| | |
|----------------|--------------------------------------------------------------|
| Efficiency | 88 % |
| Safety | EN 60950 IEC 60950 UL 60950 CAN/CSA-C22.2 No. 60950 |
| EMI, radiated | FCC Part 15, class B |
| Compliant with | CISPR 22, class B |
| Cooling | Fan cooled |
| Acoustic noise | 60 dB(A) |
| Power density | 9.1 W / in ³ , 553 W / l |
| MTBF | 760 K hours |

Input

| | |
|---------------------|---------------------------|
| Voltage range | 20 ... 31 V _{dc} |
| Inrush current | < 200 A |
| Current maximum | 75 A |
| EMI, conducted | CISPR 14 |
| Compliant with | |
| Mains connector | Rear side |
| Input protection | Internal fuse 160 A x 1 |
| Input switch | No |
| Polarity protection | Yes |

Output

| | |
|--------------------------|----------------------------|
| Voltage, nominal | 55 V _{dc} , fixed |
| Load regulation | < ± 1 % |
| Line regulation | < ± 0.2 % |
| Overvoltage protection | 58.5 ± 0.8V |
| Ripple | £ 150 mV _{p-p} |
| Current limit, nominal | 26 A _{dc} ± 5% |
| Load sharing | < ± 5% |
| Power limit | 1300 W, fixed |
| Output connector | Rear side |
| Short circuit protection | Yes |

User Interface

| | |
|-------------------|-------------------------------------------------------|
| Status indication | LED «Input OK» LED «Output Fail» LED «Fan Fail» |
|-------------------|-------------------------------------------------------|

Mechanics

| | |
|-----------------|----------------|
| Width, overall | 2.6" / 65 mm |
| Depth, overall | 9.8" / 250 mm |
| Height, overall | 6.7" / 170 mm |
| Weight | 6.67 lb / 3 kg |

Environment

| | |
|-----------------------|--------------------------|
| Operating temperature | - 10 ... + 60 °C |
| Relative humidity | 95 % max, non condensing |
| Altitude | - 500 ~ 10000 feet |

*Specifications are subject to change due to technical progress