

DPR 2900 EnergE 98%

Single Phase Rectifier

Description

Delta's technology leading telecom rectifier DPR 2900 EnergE provides the industrial leading efficiency of 98%. The single phase, hot pluggable fan cooled rectifier provides the 34 W/in³ outstanding power density. Integrated with the high efficiency rectifier DPR 2900 EnergE, Delta power solution provides an energy saving solution for network base stations, wireless applications, fixed line applications and data communications. It is fully backwards compatible for retrofit or existing DPR2900 96% installations.

Main features

- Energy saving – leading edge efficiency 98%
- Advanced energy saving functionality
- High power density 34W/in³
- Low carbon emissions
- 3 modules per 19" x 1U shelf
- 4 modules per 23" x 1U shelf
- Wide AC input voltage range
- Protection against loss of Neutral and AC over voltage

Applications

- **Wireless applications**
- **Fixed line applications, data communications**
- **Network base stations**



Specifications

| Model | DPR 2900B – 48 ID:D1 |
|--------------------------------|--|
| 1. Input | |
| Mains voltage | 90 - 300 V _{RMS} |
| Mains frequency | 50 / 60 Hz |
| Harmonic distortion (THD) | 5 % @ loads ≥ 50 % |
| EMI (conducted) | EN 55022, class B |
| Protection | Internal fuse 20 A x 2 |
| AC over voltage protection | Incl. loss of neutral |
| 2. Output | |
| Nominal system voltage | 54.0 V |
| Operating voltage range | 43 – 58 V |
| Power limitation | 2900 W |
| Current limitation | 57.2 A |
| Over voltage protection | 58.5 V |
| EMI (conducted) | EN 55022, class A |
| Load sharing | Yes |
| Protection | Internal fuse |
| 3. General | |
| Efficiency | 98 % |
| Power density | 34 W/in ³ |
| Communication Interface | CAN bus |
| Control and monitoring | ORION |
| User interface | Status indication |
| Cooling | Fan cooled |
| Acoustics | 55 dB (A) |
| Dimensions (W x H x D) | 125 x 41 x 273mm (4.9 x 1.6 x 10.8 in) |
| Weight | 1.8 kg (3.97 lb) |
| Operating temperature | -40 to +75 °C (-40 to +167 °F) |
| Relative humidity | 95%, non-condensing (Max.) |
| 4. Standards | |
| Safety | IEC/EN/UL 62368-1 CAN/CSA C22.2 No. 62368-1 |
| EMI (radiated) | EN 55022, class B |
| Environment | RoHS compliant |
| Protection class | IP20 (EN 60529) |
| 5. Ordering information | |
| Part number | TPS1010038A |

*All specifications are subject to change without prior notice.

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