

Power System ES 48/200-UQA02

The Power behind.



Main features

- Up to 10.8 kW installed maximum power
- User friendly user(LCD) operation interface
- Wide input voltage range
- Module design, front access for simple maintenance
- Compact design, saves valuable floor space
- Intelligent remote system monitoring and control

Applications

- Telecom, wireless, datacomm
- Medium power system
- 2G/ 3G site power application

Description

Delta DPR 2700 series power system, consisting of compact rack enclosures, 2700W rectifier modules, 1000W converter modules and related power distribution units, is under the control of Control and Supervisory Unit. User can operate the system via the user friendly LCD interface. Meanwhile, with the Delta power system management software, the remote power system management function is also available through internet, intranet or telephone line.

Delta DPR 2700 series power system is designed to meet the demands of today's and tomorrow's wireless and wire-line network applications. It combines a compact, modular design and intelligent power features. The DPR 2700 series power module is UL, TUV approved and manufactured in our modern **ISO 9001** and **TL 9000** certified facility.




Power System ES 48/200-UQA02

Technical Specifications

| General | |
|--------------|------------------------------|
| Efficiency | ≥ 92 % |
| Losses, max. | 216 W (Per rectifiers) Max |
| Safety | CE, UL, TUV/CE (Rectifier) |
| EMC | EN 55022 Class A (Rectifier) |
| Cooling | Fan cooled rectifiers |

| Input | |
|---------------------------------|--|
| AC connection & Nominal voltage | L1 – L2 – L3 - N + PE : 380 /220V _{RMS} |
| Range, full power | 184 ... 300 V _{RMS} |
| Range, reduced power | 90 ... 184 V _{RMS} |
| Frequency range | 45 ... 65 Hz |
| Current nominal | 3P L1 – L2 – L3 - N + PE: 380 V _{RMS} /32 A _{RMS} @ 2.0kW X 4 |
| Inrush current | < 21 A _{peak} per rectifier |
| Harmonic distort. THD | < 5 % |
| Input protection, | 3P with N-PE Surge Protect 40 KA 8/20 μS |
| Main switch | AC Terminal (Optional AC Breaker) |

| Output | |
|-------------------------------|--|
| Voltage, nominal | Float: 54.0 V _{DC} Equalize: 56.0 V _{DC} |
| Voltage range | 40 ... 59.5 V _{DC} |
| Voltage regulation | < ± 0.1 % |
| Overvoltage protection | 59.5 V _{DC} |
| Ripple + spikes | ≤ 100 mV _{p-p} |
| Psophometric noise | ≤ 2.0 mV _{RMS} (weighted) |
| Output current | 200 A _{DC} @ 54 V _{DC} Bus-Bar rating |
| DPR 2700 rectifier X4 Output | |
| Output current | 200 A _{DC} @ 54 V _{DC} 224 A _{DC} @ 48 V _{DC} |
| Power, maximum | 10.8 kW |
| DCM 1000W converter X4 Output | |
| Output current | 160A _{DC} @ 24 V _{DC} |
| Power, maximum | 4.0 kW |

| Load distribution | |
|-------------------------|--|
| System Configuration: |  |
| Power Distribution Unit | <ol style="list-style-type: none"> 1. Main AC Terminal (Top -Rear) 2. 3P with N+PE AC Surge Protection 3. -48V O/P Load Breaker X 17 (DIN Rail C60 Type) 63A x2; 32A x11; 10A x2; |

| | |
|------|---|
| | 6A x2 |
| | 4. +24V O/P Load Breaker X 4 (DIN Rail C120 Type) 100A x4 |
| | 5. Battery Breaker X3 (Screw Type) Breaker 200A X3 |
| LVDL | 250A * 3 |

| Mechanics | |
|--------------------|---|
| Construction | Power Shelf Application |
| Height, overall | 260.5 mm / 10.25 inch (6U) |
| Width, body | 584.2mm / 23 inch |
| Depth, overall | 391.6 mm / 15.4 inch |
| Weight, system | 60 kg / 132 lb (w/o Rectifier and Converter) |
| Weight, rectifiers | 2.0 kg / 4.4. lb |
| Weight, converters | 1 kg / 2.2. lb |

| Environment | |
|---------------------|------------------------------|
| Ambient temperature | -5 ... +45°C / 23 ... 113°F |
| Storage temperature | -40...+80 °C (-40...+176 °F) |
| Relative humidity | 95 % max, non cond. |

| Rectifier Type | |
|----------------|--------------|
| DPR2000 series | ESR-48/56A B |
| DCM1000W | DCS-24/40A A |

| Control and monitoring | |
|-------------------------|---|
| Power system controller | Delta New Smart CSU |
| Display | LCD 128 x 64 dots display |
| Function | System monitoring (remote/local) Parameter setting Temperature compensation Boost / Equalize charge Alarm relay definable Battery test |
| Remote Interface | RS-232 |

| Accessories | |
|-------------|----------------------------------|
| | Rectifier blank panel |
| | Delta remote management software |
| | Web/ SNMP extended board |

Subject to change due to technical progress.

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