

# Power System ES 48/300-UQA03

The Power behind.



## Main features

- Up to 16.2 kW installed 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

## Description

Delta DPR 2700 series power system, consisting of compact rack enclosures, 2700W rectifier 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.



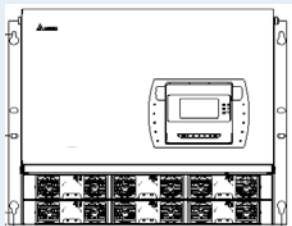
# Power System ES 48/300-UQA03

## Technical Specifications

General	
Efficiency	≥ 92 %
Losses, max.	235W (Per rectifiers) Max
Safety	CE, UL, TUV/CE (Rectifier)
EMC	EN 55022 Class B (Rectifier)
Cooling	Fan cooled rectifiers

Input	
AC connection & Nominal voltage	Rectifier:L-N + PE : 220 V <sub>RMS</sub> System 3L-N + PE : 380 V <sub>RMS</sub>
Range, full power	184 ... 300 V <sub>RMS</sub>
Range, reduced power	90 ... 184 V <sub>RMS</sub>
Frequency range	45 ... 65 Hz
Current nominal	L-N + PE: 220 V <sub>RMS</sub> /81 A <sub>RMS</sub> @ 2.7kW X6
Inrush current	< 21 A <sub>peak</sub> per rectifier
Harmonic distort. THD	< 5 %
Input protection,	Surge Protect 20 KA 8/20 μS
Main switch	AC Breaker

Output	
Voltage, nominal	Float: 54.0 V <sub>DC</sub> Equalize: 56.0 V <sub>DC</sub>
Voltage range	40 ... 59.5 V <sub>DC</sub>
Voltage regulation	< ± 0.1 %
Overvoltage protection	59.5 V <sub>DC</sub>
Ripple + spikes	≤ 100 mV <sub>p-p</sub>
Psophometric noise	≤ 2.0 mV <sub>RMS</sub> (weighted)
Output current	300 A <sub>DC</sub> @ 54 V <sub>DC</sub> 337.5 A <sub>DC</sub> @ 48 V <sub>DC</sub>
Power, maximum	16.2 kW

Load distribution	
System Configuration:	
Power Distribution Unit	<ol style="list-style-type: none"> <li>1. Main AC 3P/32A Breaker</li> <li>2. AC Surge Protection</li> <li>3. Load Breaker X 12 (DIN Rail C60 Type )</li> <li>4. Low Priority breaker x6 (DIN Rail C60 Type )</li> </ol>

	5. Battery Breaker 200A X 3 (200A Type)
LVBD	300A on battery Side (with by pass 300A breaker)
PLVD	100A Low Priority (with by pass 100A breaker)

Mechanics	
Construction	Power Shelf
Height, overall	378 mm / 14.7 inch (8.5U)
Width, body	482.6mm / 19 inch
Depth, overall	340 mm / 13.5 inch
Weight, system	85 kg / 187 lb (w/o Rectifier)
Weight, rectifiers	2.0 kg / 4.4. lb

Environment	
Ambient temperature	-5 ... +50°C / 23 ... 122°F
Reduced power	+55...+75 °C (131...+167 °F)
Storage temperature	-40...+80 °C (-40...+176 °F)
Relative humidity	95 % max, non cond.

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 / Ethernet (Optional)

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

Subject to change due to technical progress.