

# Power System ES 48/300-UQA05

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.

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.



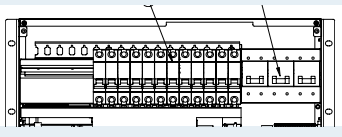
# Power System ES 48/300-UQA05

## Technical Specifications

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

Input	
AC connection & Nominal voltage	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>
AC over voltage disconnect	300 ± 10V <sub>RMS</sub> (Recover 290± 5V <sub>RMS</sub> )
Frequency range	45 ... 65 Hz
Current nominal	3L-N + PE: 26.8 A <sub>RMS</sub> @ 16.2 kW
Inrush current	< 21 A <sub>peak</sub> per rectifier
Harmonic distort. THD	< 5 %
Input protection,	Ac surge (Optional)
Main switch	AC Terminal

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	≤ 200 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 Terminal (Top - Rear)</li> <li>2. Load Breaker X 12 (DIN Rail C60 Type) 32A x12;</li> <li>3. Battery Breaker X3 (C120 Type) Breaker 125A X3</li> <li>4. Controller - New Smart CSU</li> <li>5. 128X64 Dots LCD display</li> <li>6. 8 relays dry connect.</li> </ol>
LVDL	300A X1 (load Side),

Mechanics	
Construction	Power Shelf
Height, overall	263 mm / 10.4 inch
Width, body	482.6mm / 19 inch
Depth, overall	386.1 mm / 15.2 inch
Weight, system	35 kg / 77 lb (w/o Rectifier)
Weight, rectifiers	2.0 kg / 4.4. lb

Environment	
Ambient temperature	-20 ... +50°C / (-4... 122°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
Web Server Function	RJ-45 (Optional)

Accessories	
Rectifier blank panel	
Delta remote management software	

Subject to change due to technical progress.

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