

# Power System ES 24/300-UQA01

The Power behind.



## Main features

- Up to 7.2 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 1800 series power system, consisting of compact rack enclosures, 1800W 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 1800 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 24V type 1800 watts power module is UL, TUV approved and manufactured in our modern **ISO 9001** and **TL 9000** certified facility.



**Slot 5 & 6 is empty**


# Power System ES 24/300-UQA01

## Technical Specifications

General	
Efficiency	≥ 89.5 %
Losses, max.	225W (Per rectifiers) Max
Safety	CE (Per rectifiers)
EMC	EN 55022 Class A (Per rectifiers)
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	310 ± 10V <sub>RMS</sub> (Recover 290± 5V <sub>RMS</sub> )
Frequency range	45 ... 65 Hz
Current nominal	3L-N + PE: 20.8 A <sub>RMS</sub> @ 7.2 kW
Inrush current	< 17.3 A <sub>peak</sub> per rectifier
Harmonic distort. THD	< 5 %
Input protection,	ACV high protection
Main switch	AC Terminal
AC Surge	Optional

Output	
Voltage, nominal	Float: 27.0 V <sub>DC</sub> Equalize: 28.2 V <sub>DC</sub>
Voltage range	20 ... 29.5 V <sub>DC</sub>
Voltage regulation	< ± 0.1 %
Overvoltage protection	29.5 V <sub>DC</sub>
Ripple + spikes	≤ 200 mV <sub>p-p</sub>
Psophometric noise	≤ 2.0 mV <sub>RMS</sub> (weighted)
Output current	266.6 A <sub>DC</sub> @ 27 V <sub>DC</sub> 300 A <sub>DC</sub> @ 24 V <sub>DC</sub>
Power, maximum	7.2 kW

Load distribution	
System Configuration:	
Power Distribution Unit	1. Main AC Terminal (Top -Rear)

	<ol style="list-style-type: none"> <li>2. Load Breaker X 18 (DIN Rail C60 Type) 63A x2; 32A x12; 10A x2; 6A x2</li> <li>3. Battery Breaker x3 (Screw Type) Breaker 200A x3</li> <li>4. Controller - New Smart CSU</li> <li>5. 128X64 Dots LCD display</li> <li>6. 8 relays dry connect.</li> </ol>
LVDB X 1	300A x1 (Battery 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	55 kg / 121 lb (w/o Rectifier)
Weight, rectifiers	2.0 kg / 4.4. lb

Environment	
Ambient temperature	-20 ... +45°C / (-4... 133°F)
Storage temperature	-40...+75 °C (-40...+167 °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
Rectifier	Slot 1~4 rectifier, Slot 5&6 are empty

Accessories	
	Rectifier blank panel
	Delta remote management software

Subject to change due to technical progress.