

Power System ES 24/300-JKA01

The Power behind.



Main features

- Up to 8.7 kW installed max. 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 shelf for telecom power system

Description

Delta MCS 1800 series power system, consisting of compact rack enclosures, 1450W 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 MCS 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 MCS-1800 series power module is UL, TUV approved and manufactured in our modern **ISO 9001** and **TL 9000** certified facility.



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Technical Specifications

General	
Efficiency	≥ 89 %
Losses, max.	160W (Per rectifiers)
Safety	CE
EMC	EN 55022 Class A
Cooling	Fan cooled rectifiers

Input	
AC connection & Nominal voltage	3L + N + PE : 380 V _{RMS}
Range, full power	176 ... 300 V _{RMS}
Range, reduced power	90 ... 176 V _{RMS}
Frequency range	45 ... 66 Hz
Current nominal	3L + N + PE: 24 A _{RMS} @ 8.7kW
Inrush current	< 15 A _{peak} per rectifier
Harmonic distort. THD	< 5 %
Input protection,	Surge Protect 20 KA 8/20 μS
Main switch	AC Breaker

Output	
Voltage, nominal	Float: 27.0 V _{DC} Equalize: 28.0 V _{DC}
Voltage range	22 ... 29.0 V _{DC}
Voltage regulation	< ± 0.1 %
Overvoltage protection	29.5 V _{DC}
Ripple + spikes	≤ 100 mV _{p-p}
Psophometric noise	≤ 2.0 mV _{RMS} (weighted)
Output current	300 A _{DC} @ 27 V _{DC} 300 A _{DC} @ 24 V _{DC}
Power, maximum	8.7 kW

Load distribution				
Load Distribution	<table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td style="text-align: center;">Distribution Unit</td> </tr> <tr> <td style="text-align: center;">Rectifier shelf 1</td> </tr> <tr> <td style="text-align: center;">Rectifier shelf 1</td> </tr> </table>	Distribution Unit	Rectifier shelf 1	Rectifier shelf 1
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Power Distribution Unit	<ol style="list-style-type: none"> 1. Main AC Breaker 2. AC Surge Protection 3. Load Breaker X6 (DIN Rail C60 Type 63AX6) 4. Battery Breaker X3 (DIN rail C120) Type 120A x3) 5. Hall Sensor for Battery current measurement 6. The PDU follow Customer 			

	request design
	7. D/O eight relays output (From C Type)
LVBD	400A

Mechanics	
Construction	Power Shelf
Height, overall	337 mm / 13.27 inch
Width, body	483.8 mm / 19 inch
Depth, overall	346.5 mm / 13.64 inch
Weight, system	25 kg / 55 lb (w/o Rectifier)
Weight, rectifiers	3.1 kg / 6.83 lb

Environment	
Ambient temperature	-5 ... +50°C / 23 ... 122°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	D type - RS-232 for Local RJ-45 for Web server function

Accessories	
Rectifier blank panel	
Delta remote management software	

Subject to change due to technical progress.