

<p>FCBC/ SMPS POWER PLANT MODEL DY81400ERC (48V/200A) With Hot Plug-in Dual Controller to increase System reliability</p>
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MODEL DY 81400ERC is a Modular Power System, which uses 8 nos. Hot-Pluggable DY 1400E Rectifier Modules of 1400Watts and a detachable additional Controller to ensure break-free System operation.

ELECTRICAL SPECIFICATIONS

INPUT SPECIFICATION

Nominal Voltage	230 VAC, Single Phase
Voltage Range	150 - 275 VAC
Frequency	47 -53 Hz
Input Current	<60A RMS
Power Factor	0.98 MIN.(50% Load to 100% Load)
Efficiency	>90%
Dielectric Strength	1.5 KV AC (I/P to O/P & Case)

OUTPUT SPECIFICATION

Nominal Voltage	54 VDC
Output Voltage Span Adjustment	48V - 56V
Output Current	8 X 25A (MAX.)
Power	8 X 1400W (MAX.)
Net Regulation	± 0.5V
Ripple	< 300mV p -p
Psophometric	< 4mV
Audible Noise	<50dBA
Battery Current Limit	0.1 AH of Battery Capacity
Battery Protection	LVD (43-44V)

SPECIAL FEATURES

- ❖ Modular System, easy for Maintenance
- ❖ Hot Plug-In Modules
- ❖ Wide Input Voltage Range
- ❖ Active Current Sharing
- ❖ Potential Free Contacts for Remote Fault Annunciation
- ❖ Power Factor Correction
- ❖ Input High Voltage Disconnect (HVD) & Battery Low Voltage Disconnect (LVD)
- ❖ Analog Controllers- Replaceable and Standby
- ❖ Common O/P Voltage Control
- ❖ Battery Current Limiting for each battery path (Presettable to suit battery Capacity)

ALARMS LED DISPLAY	FUNCTIONAL MONITORING DISPLAY
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<ol style="list-style-type: none"> 1. AC out of range 2. DC Low / High 3. AC ON Battery discharge 4. Battery Reverse 5. Battery Disconnected 	<ol style="list-style-type: none"> 6. MCB Trip 7. Module Fail 8. Battery Float 9. Battery Charge
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LED DPM Provided for- <ol style="list-style-type: none"> 1. Battery Voltage 2. Load Voltage 3. Battery Current 4. Load Current
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MECHANICAL	ENVIRONMENT
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Weight	Approx. 130 Kgs.	Operating Temperature	0° to 50° C
Dimensions	1310 (H) x 600 (W) x 600 (D) mm	Storage Temperature	-10° C to +70° C
Enclosure	IP-20, CRC Sheet, Powder coated Case	Cooling	Convection
Input Connection	Wago Terminal	Humidity	< 95% RH
Output Connection	Busbar Terminal		

Specification No - FCBC/ DY 81400ERC- (Rev. 0)

* Enhancement to the above specifications & Customizing can be considered on request.
 * Specifications may or can be altered without notice as per company's continuous improvement Program.