

**FCBC/ SMPS POWER PLANT**  
**MODEL DY 81500ENRC (48V/176A)**  
 With Hot Plug-in Dual Controller to increase System reliability

**MODEL DY 81500ENRC is a Modular Power System, which uses 8 nos. Hot-Pluggable DY 1500EN Rectifier Modules of 1400Watts and a detachable additional Controller to ensure break-free System operation. Specifically designed for charging NI-CD Batteries.**

**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	66 VDC
Output Voltage Span Adjustment	48V - 66V
Output Current	8 X 22A (MAX.)
Power	8 X 1400W (MAX.)
Net Regulation	± 0.5V
Ripple	< 300mV p -p
Psophometric	< 4mV
Audible Noise	<50dBA
Battery Current Limit	0.1 ~ 0.2 AH of Battery(NI-CD only)

**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)
- ❖ Analog Controllers- Replaceable and Standby
- ❖ Common O/P Voltage Control

**ALARMS LED DISPLAY**

- |                            |                   |
|----------------------------|-------------------|
| 1. AC out of range         | 6. Module Fail    |
| 2. DC Low / High           | 7. Battery Float  |
| 3. AC ON Battery discharge | 8. Battery Charge |
| 4. Battery Reverse         | 9. MCB Trip       |
| 5. Battery Disconnected    |                   |

**FUNCTIONAL MONITORING DISPLAY**

- LED DPM Provided for-
1. Battery Voltage
  2. Load Voltage
  3. Battery Current
  4. Load Current

**MECHANICAL**

Weight	Approx. 130 Kgs.
Dimensions	1310 (H) x 600 (W) x 600 (D) mm
Enclosure	IP-20, CRC Sheet, Powder coated Case
Input Connection	Wago Terminals
Output Connection	Busbar Terminals

**ENVIRONMENT**

Operating Temperature	0° to 50° C
Storage Temperature	-10° C to +70° C
Cooling	Convection
Humidity	< 95% RH

Specification No - FCBC/ DY 81500ENRC- (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.