


<p><b>FCBC / SMPS POWER PLANT</b>  <b>MODEL DY 121500ENRC(66V/264A)</b>  <b>With Hot Plug-in Dual Controller to increase System reliability</b></p>	
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**MODEL DY 121500ENRC is a Modular Power System, which uses 12 nos. Hot-Pluggable DY 1400EN 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
Switching Frequency	47 -53 Hz
Input Current	<50A 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 Adj.	48V - 56V
Output Current	12 X 25A (MAX.)
Power	12 X 1400W (MAX.)
Net Regulation	±0.5V
Ripple	< 300mV p -p
Psophometric	< 4mV
Audible Noise	< 50 dBA
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) & Battery Low Voltage Disconnect(LVD)
- Analog Controllers- Replaceable and Standby
- Common O/P Voltage Control

**ALARMS LED DISPLAY**

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|----------------------------|-------------------|
| 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         |                   |
| 5. MCB Trip                |                   |

**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 81400E- \(Rev. 0\)](#)

\* 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.