

FCBC / SMPS POWER PLANT
MODEL DY 81400ELNRC (24V/320A)
With Hot Plug-in Dual Controller to increase System reliability

MODEL DY 81400ELN is a Modular Power System, which uses 8 nos. Hot-Pluggable DY 1400ELN 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	33 VDC
Output Voltage Span Adjustment	24V - 33V
Output Current	8 X 40A (MAX.)
Power	8 X 1400W (MAX.)
Net Regulation	± 0.5V
Ripple	< 200mV p -p
Psophometric	< 3mV
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) & Battery Low Voltage Disconnect (LVD)
- ❖ 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 | |
| 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 81400ELNRC- (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.