

FCBC/ SMPS POWER PLANT- MODEL DY81400E (48V/200A)



MODEL DY 81400E is a Modular Power System, which uses 8 nos. Hot-Pluggable DY 1400E Rectifier Modules of 1400Watts.

ELECTRICAL SPECIFICATIONS

INPUT SPECIFICATION

Nominal Voltage	230 VAC, Single Phase
Voltage Range	150 - 275 VAC
Frequency	47 -53 Hz
Input Current	<80A 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
Battery Protection	LVD (43-44V)

SPECIAL FEATURES

- ❖ Modular Systems, 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 Controller
- ❖ Common O/P Voltage Control
- ❖ Battery Current Limiting for each battery path (Presettable to suit battery Capacity)

MONITORING LCD DISPLAY

1. AC out of range.	8. System Overload
2. DC Low / High	9. System Voltage
3. AC ON Battery discharged	10. System Current
4. Battery temp. compensation fail	11. Battery Current
5. Battery disconnect	12. Load Current
6. MCB Trip	13. AC Voltage
7. Module Fail (Major alarm for 2 modules, minor for 1 module)	

FUNCTIONAL LED'S

1. AC Available
2. System on Float
3. System on Charge
4. Alarms

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 Terminal
Output Connection	Busbar Terminal

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.