

FCBC / SMPS POWER PLANT- MODEL DY32000E (48V/100A)



MODEL DY 32000E is a Modular Power System, which uses 3 nos. Hot-Pluggable DY 2000E Rectifier Modules of 2000Watts.

ELECTRICAL SPECIFICATIONS

INPUT SPECIFICATIONS

Nominal Voltage	230 VAC, Single Phase
Voltage Range	150 - 275 VAC
Frequency	47 –53 Hz
Input Current	<39A 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 SPECIFICATIONS

Nominal Voltage	54 VDC
Output Voltage Span Adj.	48V - 56V
Output Current	100A (MAX.)
Power	3 X 2000W (MAX.)
Net Regulation	±0.5V
Ripple	< 300mV p –p
Psophometric	< 4mV
Audible Noise	< 50 dBA
Battery Current Limit	50% to 100% Adjustable
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)
- ❖ Microprocessor Controller
- ❖ Common O/P Voltage Control
- ❖ Battery Current Limiting for each battery path (Pre-settable 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 fail)	

FUNCTIONAL LED'S

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

MECHANICAL

Weight	Approx. 60 Kgs
Dimensions	522 (H) x 642 (W) x 525 (D) mm
Enclosure	IP-41, CRC Sheet, Powder coated Case, Tabletop Mountable
Input Connection	2 Meter. Cable
Output Connection	Banana Terminal

ENVIRONMENT

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

Specification No - FCBC/ DY 32000E- (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.