

## FCBC / SMPS POWER PLANT MODEL DY21400E(48V/50A)



MODEL DY 21400E is a Modular Power System, which uses 2 nos. Hot-Pluggable DY 1400E Rectifier Modules of 1400Watts.

### ELECTRICAL SPECIFICATIONS

#### INPUT SPECIFICATIONS

Nominal Voltage	230 VAC, Single Phase
Voltage Range	150 - 275 VAC
Frequency	47 -53 Hz
Input Current	<20A 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 Adjustment	48V - 56V
Output Current	2 X 25A (MAX.)
Power	2 X 1400W (MAX.)
Net Regulation	± 0.5V
Ripple	< 300mV p-p
Psophometric	< 4mV
Audible Noise	<50dBA
Battery Current Limit	0.1AH 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 (presetable to suit battery capacity).

#### MONITORING LED DISPLAY

1. AC FAIL	6. LOAD ON
2. Battery Low	7. Battery ON
3. AC ON Battery discharged	8. System On Float
4. Battery Reverse	9. System On Charge
5. Module Fail	

#### MONITORING DISPLAY

Digital Panel Meters Provided for-
1. Battery Voltage
2. Load Voltage
3. Battery Current
4. Load Current

#### MECHANICAL

Weight	Approx. 15 Kgs
Dimensions	280 (H) x 483 (W) x 450 (D) mm
Enclosure	IP-20, CRC Sheet, Powder coated Case, Tabletop or 19" Rack 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	Convection
Humidity	< 95% RH

[Specification No - FCBC/ DY 21400E- \(Rev. 0\)](#)

\* 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.