

FCBC / SMPS POWER PLANT
MODEL DY 21400ERC (48V/50A)
 With Hot Plug-in Dual Controller to increase System reliability



MODEL DY 21400ERC is a Modular Power System, which uses 2 nos. Hot-Pluggable DY 1400E Rectifier Modules of 1400 Watts. and a detachable additional Controller to ensure break-free System operation.

ELECTRICAL SPECIFICATIONS

INPUT SPECIFICATIONS

Nominal Voltage	230 VAC, Single Phase
Voltage Range	150 - 275 VAC
Frequency	47 -53 Hz
Input Current	<15A 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 Capacity
Battery Protection	LVD (43- 44V)

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
- ❖ Battery Current Limiting for each battery path (presettable to suit battery capacity).

ALARMS LED DISPLAY

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

FUNCTION MONITORING DISPLAY

- LED DPM Provided for-
1. Battery Voltage
 2. Load Voltage
 3. Battery Current
 4. Load Current

MECHANICAL

Weight	Approx. 25 Kgs
Dimensions	302 (H) x 483 (W) x 403 (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 21400ERC- (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.