

## FCBC / SMPS POWER PLANT MODEL DY 21400EL (24V/100A)



MODEL DY 21400EL is a Modular Power System, which uses 2 nos. Hot-Pluggable DY 1400EL 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	28 VDC
Output Voltage Span Adjustment	24V - 28V
Output Current	2 X 50A (MAX.)
Power	2 X 1400W (MAX.)
Net Regulation	±0.5V load and line
Ripple	< 200mV p-p
Psophometric	< 4mV
Audible Noise	< 50 dBA
Battery Current Limit	0.1AH of Battery
Battery Protection	LVD (21-22V)

### 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 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 466 (W) x 480 (D) mm
Enclosure	IP-20, CRC Sheet, Powder coated Case, Table top or 19" Rack Mounting
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 21400EL- (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.