

FCBC/ SMPS POWER PLANT
MODEL DY 41400ELRC (24V/200A)
 With Hot Plug-in Dual Controller to increase System reliability

MODEL DY 41400ELRC is a Modular Power System, which uses 4 nos. Hot-Pluggable DY 1400EL Rectifier Modules of 1400Watts 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 | <25A RMS |
| Power Factor | 0.98 MIN.(50% Load to 100% Load) |
| Efficiency | >90% |
| Insulation | @ 500V DC > 100MΩ (I/P to O/P & Case) |
| Dielectric Strength | 1.5 KV AC (I/P to O/P & Case) |

OUTPUT SPECIFICATIONS

| | |
|--------------------------|----------------------------------|
| Nominal Voltage | 28 VDC |
| Output Voltage Span Adj. | 24V - 28V |
| Output Current | 4 X 50A (MAX.) |
| Power | 4 X 1400W (MAX.) |
| Regulation | ±0.5V load and line |
| Ripple + Noise | < 200mV p -p |
| Psophometric | < 4mV (- 46dbm) |
| Audible Noise | < 50 dBA |
| Current Limiting | 0.1 ~ 0.2 AH of Battery Capacity |

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

ALARMS LED DISPLAY

- | | |
|----------------------------|-------------------|
| 1. AC out of range | 6. Module Fail |
| 2. DC Low / High | 7. Battery Float |
| 3. AC ON Battery discharge | 8. Battery Charge |
| 4. Battery Reverse | |
| 5. Battery Disconnected | |

FUNCTIONAL MONITORING DISPLAY

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

MECHANICAL

| | |
|-------------------|--------------------------------------|
| Weight | Approx. 90 kgs |
| Dimensions | 1310 (H) x 600 (W) x 600 (D) mm |
| Enclosure | IP-20, CRC Sheet, Powder coated Case |
| Input Connection | Wago Terminals |
| Output Connection | Wago Terminals |

ENVIRONMENT

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

Specification No - FCBC/ DY 41400ELRC- (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.