

3P Power

Passion Profession Perfection



PRODUCT CATALOGUE

Brilliant Series Modular DC UPS

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FEATURES

- **ADAPTABILITY**

Designed to accept a wide range of input voltages and frequency range, this DC UPS is capable to cope with the worst utility conditions

- **INCREASED EFFICIENCY**

Increase in system efficiency leads to higher sustainability through reduction of carbon emissions. With higher efficiency being translated, reduction of electrical loss and cooling system can be greatly reduced

- **FRONT ACCESS**

User access is made simple by ensuring the accessibility of the operational controls through the front panel for ease of future maintenance and replacement.

- **FLEXIBLE BATTERY CONFIGURATION**

Battery quantity and battery types can be adjusted flexibly according to the various power demands

- **FLEXIBLE HOT SWAPPABLE DESIGN**

This unique modular design type of rectifier module and control module allows user to add or replace the modules during live system operation while the other existing module(s) continue protecting the load. This function aims to avoid interruption to the load during any module replacement or system upgrading works are in progress

- **DIGITAL DISPLAY PANEL**

Built-in monitoring module includes LCD screen, control directional keys and indicators to support real time display and ease system set up. The advanced microprocessors provides accurate, reliable and fast data analysis

SUITABLE FOR INDUSTRIAL & COMMERCIAL APPLICATIONS



* Industrial application such as Process and Control system, Industrial Machinery, Instrument and Measurement, Process monitoring, Control and Security



* Infrastructures application such as Hospital, Airport, Data Centre, Telecommunication, Semiconductor, Water treatment, Transportation



* Energy industry application such as Oil & Gas, Petrochemicals, Power Plant, Power Transmission



* Military application such as Energy Storage Charger

Brilliant Series Modular DC UPS Standard Technical Data

| MODEL | MODR024-XXXX | MODR048-XXX |
|---|--|------------------------------|
| OUTPUT CAPACITY | 24Vdc / 040A To 2240A | 48Vdc / 027A To 1600A |
| DC POWER SUPPLY SYSTEM | | |
| AC Input Voltage | Single Phase 220/230/240ac or Three Phase 380/400/415Vac | |
| Efficiency | ≥ 96% when DC load is > 50% | |
| Cable Entry | Front Bottom (Other cable entry is available on request) | |
| Enclosure Protection | IP20 according to IEC60529 or 60144 as standard (Other IP ratings are available on request) | |
| Sub-rack / Enclosure Colour | Black / RAL7035 as standard (Other colour are available on request) | |
| Dimensions (W x D x H) per Sub-rack | 600mm x 19" x H (Height depends upon the output capacity) | |
| RECTIFIER MODULE INPUT PARAMETERS | | |
| Input Power Factor | 0.99 @ Nominal Input | |
| Input Voltage | ± 20% of Single Phase | |
| Input Current | Depending upon the output capacity | |
| Input Frequency | ± 5% of 50Hz or 60Hz | |
| Rectifier Soft Start | Built-in | |
| RECTIFIER MODULE OUTPUT PARAMETERS | | |
| Adjustable Voltage Range | 21Vdc To 30Vdc | 42Vdc To 59Vdc |
| Voltage Stabilization Accuracy | ± 0.5% | |
| Current Stabilization Accuracy | ± 1% | |
| Ripple Voltage | ≤ 200mV | |
| DC Power per Rectifier | 1400W, 2100W | 1600W, 3000W |
| COMMUNICATION | | |
| Communication Slot | RS232 for LAN monitoring & communication or RS485 *Optional - SNMP Communication | |
| ENVIRONMENTAL | | |
| Type of Cooling | Fan Cool | |
| Operating Temperature | - 25°C to + 45°C | |
| Storage Temperature | - 40°C to + 70°C | |
| Humidity | ≤ 97% | |
| Noise | ≤ 45dB | |
| Installation Height | 0 To 1000m, Derating @ 1% per 100m above 1000m | |
| Safety | EN61000-4-2, EN61000-4-3, EN61000-4-6, EN61000-4-12 | |
| CONFIGURATION AND PHYSICAL INFORMATION | | |
| Numbers of Rectifier per Sub-rack | Maximum 4 Rectifiers | |
| Numbers of Rectifier per DC System | Maximum 32 Rectifiers | |
| Gross Weight (kgs) per Rectifier | 2.6 | |
| Dimensions (W x D x H) mm per Rectifier | 261 x 103 x 88 (2RU) | |
| Dimensions (W x D x H) mm per Sub-rack | 300 x 490 (19") x 88 (2RU) | |

Brilliant Series Modular DC UPS Standard Technical Data

| MODEL | MODR110-XXXX | MODR220-XXX |
|---|--|------------------------------|
| OUTPUT CAPACITY | 110Vdc / 0020A To 640A | 220Vdc / 010A To 320A |
| DC POWER SUPPLY SYSTEM | | |
| AC Input Voltage | Single Phase 220/230/240Vac or Three Phase 380/400/415Vac | |
| Efficiency | ≥ 95% when DC load is > 50% | |
| Cable Entry | Front Bottom (Other cable entry is available on request) | |
| Enclosure Protection | IP20 according to IEC60529 or 60144 as standard (Other IP ratings are available on request) | |
| Sub-rack / Enclosure Colour | Black / RAL7035 as standard (Other colour are available on request) | |
| Dimensions (W x D x H) per Sub-rack | 600mm x 19" x H (Height depends upon the output capacity) | |
| RECTIFIER MODULE INPUT PARAMETERS | | |
| Input Power Factor | 0.99 @ Nominal Input | |
| Input Voltage | ± 20% of Single Phase | |
| Input Current | Depending upon the output capacity | |
| Input Frequency | ± 5% of 50Hz or 60Hz | |
| Rectifier Soft Start | Built-in | |
| RECTIFIER MODULE OUTPUT PARAMETERS | | |
| Adjustable Voltage Range | 95Vdc To 150Vdc | 190Vdc To 300Vdc |
| Voltage Stabilization Accuracy | ± 0.5% | |
| Current Stabilization Accuracy | ± 1% | |
| Ripple Voltage | ≤ 200mV | |
| DC Power per Rectifier | 3000W | 3000W |
| COMMUNICATION | | |
| Communication Slot | RS232 for LAN monitoring & communication or RS485 *Optional - SNMP Communication | |
| ENVIRONMENTAL | | |
| Type of Cooling | Fan Cool | |
| Operating Temperature | - 25°C to + 45°C | |
| Storage Temperature | - 40°C to + 70°C | |
| Humidity | ≤ 97% | |
| Noise | ≤ 45dB | |
| Installation Height | 0 To 1000m, Derating @ 1% per 100m above 1000m | |
| Safety | EN61000-4-2, EN61000-4-3, EN61000-4-6, EN61000-4-12 | |
| CONFIGURATION AND PHYSICAL INFORMATION | | |
| Numbers of Rectifier per Sub-rack | Maximum 4 Rectifiers | |
| Numbers of Rectifier per DC System | Maximum 32 Rectifiers | |
| Gross Weight (kgs) per Rectifier | 2.5 | |
| Dimensions (W x D x H) mm per Rectifier | 261 x 103 x 88 (2RU) | |
| Dimensions (W x D x H) mm per Sub-rack | 300 x 490 (19") x 88 (2RU) | |

3P Power One Stop Solution



3PPower

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