

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, Instrument and Measurement, Process monitoring, Control and Security



* Infrastructures application such as Hospital, Airport, Data Centre, Semiconductor, Water treatment, Building and Traffic Monitoring



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



* Military application such as Energy Storage Charger

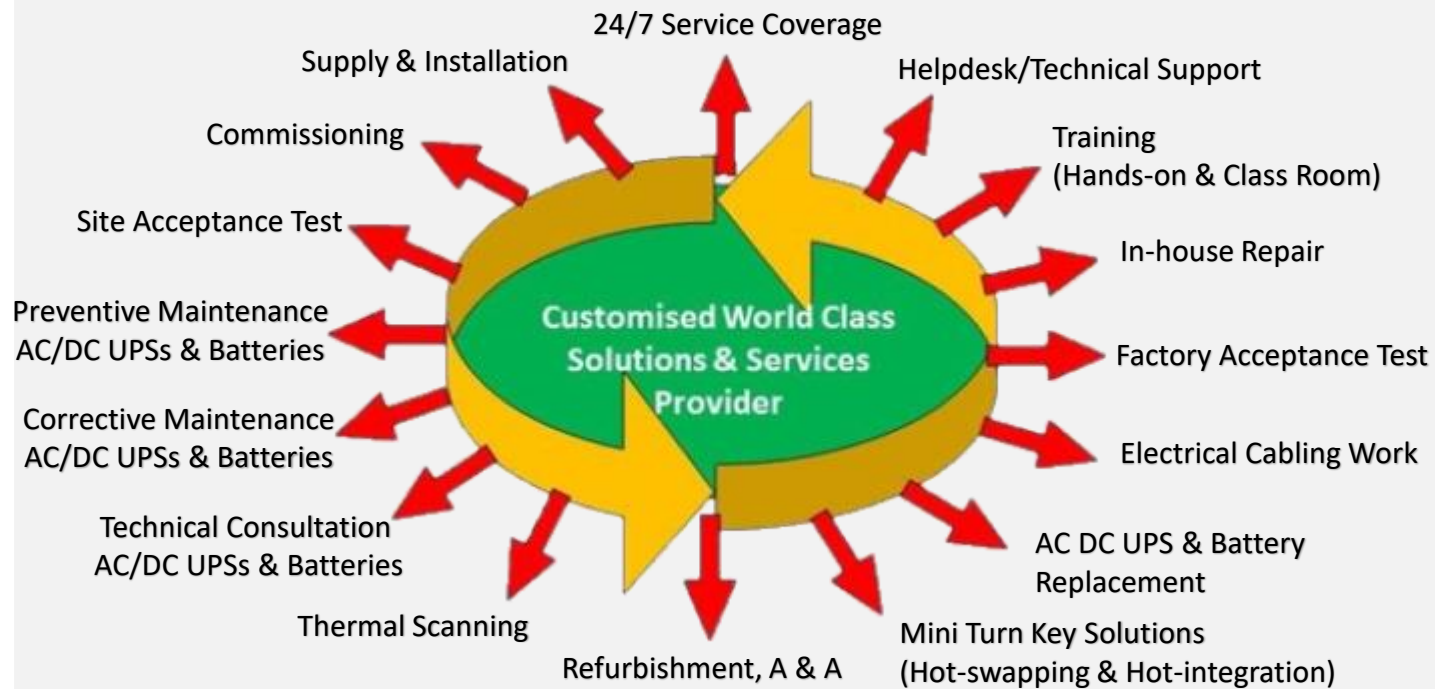
Brilliant Series Modular DC UPS Standard Technical Data

MODEL	MODR024-XXXX	MODR048-XXX
OUTPUT CAPACITY	24Vdc / 030A To 770A	48Vdc / 015A To 550A
DC POWER SUPPLY SYSTEM		
AC Input Voltage	Single Phase 220V / 230V / 240V or Three Phase 380V / 400V / 415V	
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 colours are available on request)	
Dimensions (W x D x H) mm per Cabinet	600 x 800 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	800W, 1000W, 1400W, 2100W	800W, 1000W, 1600W, 2900W
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 11 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 220A	220Vdc / 010A To 110A
DC POWER SUPPLY SYSTEM		
AC Input Voltage	Single Phase 220V / 230V / 240V or Three Phase 380V / 400V / 415V	
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 colours are available on request)	
Dimensions (W x D x H) mm per Cabinet	600 x 800 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 11 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



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