

# 3P Power

Passion Profession Perfection



# PRODUCT CATALOGUE



### Applications:

Brilliant Series DC UPS is suitable for Industrial environment



- Industrial process ( and control system, industrial machinery, instrument and measurement, process monitoring and control, security and transport systems. ...)
- Infrastructures (Hospital, airport, semiconductor, water treatment, metallurgy)
- Energy industry (gas and oil, nuclear power)
- Military application

- **Efficient electrical performance to prevent damage from top and bottom connections**

This DC UPS is designed to accept wide input voltage and frequency range to cope with the worst utility conditions. It can eliminate harmful distortion from utility power and withstand all kinds of severe impacts from various loads. It is capable of supporting heavy duty equipment and production equipment.

- **Robust cabinet design and unique universal rectifier control card that fits all environment**

The outside cabinet is designed to fit all types of environments from marine to data center and the universal control cards are coated for anti-moisture, anti-electric leakage, anti-dust and anticorrosion. Its robust design is suitable for harsh environment with high temperature, high humidity, dense dust, salt or fierce vibration.



Universal Rectifier Card (URC)

- **Cards design locally in Singapore**

Universal Rectifier Control card, thyristor triggering card and alarm display card are designed, developed, and assembled locally in Singapore. This assures that our products are in the highest quality control.



Thyristor Card



Alarm Display Card

- **Flexible battery configuration adapts different applications**

The number of batteries can be adjusted flexibly according to different power demands

- **Front access makes maintenance and replacement easily**

It is considerate in allowing access to all of the electronic cards and power components in the unit through the front panel for further maintenance and replacement.

- **Easy integration into existing electrical networks**

During wiring connection, Excellent Series can be accessible either from top or from bottom under different environmental conditions.

- **Unique Man-machine Interface**

This DC UPS has an unique panel interface, that allows end user to have a better understanding to the current running mode of the live system.



## Brilliant Series 3 Phase & 1 Phase Standard Technical Data

### Rectifier Input

Voltage	220V/230V/240V +/- 15% 1 Phase for Single Phase Input 380V/400V/415V +/-15% 3 Phase 3 Wire for Three Phase Input
Frequency	50Hz/60Hz +/- 5%

### Rectifier DC Output

Nominal Voltage	12V/24V/48V/110V/220V/400V
Adjustable Range	From 80% to 135% of nominal voltage at +/-15% of rectifier input
Stability (static)	+/-1.5% at DC load connected and standard rectifier input
Stability (Dynamic)	-/+5% at load changed from 10% to 100%and vice visa respectively
Recovery Time	<250ms to be in static state
Ripple Voltage	<5% without battery connected
Nominal DC Current	From 15Adc to 500Adc (Higher ratings are available on request)
Adjustable Range	0 to 100% both rectifier current limit and battery current limit
Current Accuracy	+/-1.5% of set point
DC Over current	110% continuous of nominal DC current
Characteristic	Constant current / constant voltage according to IU IEC 60478-1

## Brilliant Series 3 Phase & 1 Phase Standard Technical Data

### Mechanical Specs

Degree of Protection	IP 20 according to IEC 60529 & 60144
Equipment Color	Light grey RAL7035 come with epoxy poulder and anti-rust coating
Dimensions (mm)	600D X 600W X 1200H      and      600D X 600W X 1800H
Acoustic Noise Level	≤65 at 1m typically
Connection	Top or Bottom Entry as per customer requirement

### Environmental

Type Of Cooling	Nature cool up to 100A / 220Vdc and forced cooling
Operating Temperature	0 Degree Celsius to 45 Degree Celsius
Storage Temperature	-20 Degree Celsius to 70 Degree Celsius
Humidity	< 95% (Non Condensing)
Installation Height	0 to 1000m – de rating @ 1% per 100m above 1000m
Safety	IEC 62040-1-2, Functionality IEC 60146-1-1
Environment	ROHS

1 Phase Models Standard Cabinets' Dimensions and Estimated Weight

Model	Output		Dimensions (mm)			Cabinet Model	Estimated Weight (kg)
	Vdc	Amps	Width	Height	Depth		
SPC-12-15	12	15	500	790	380	CUB0579381	50
SPC-12-25	12	25	500	790	380	CUB0579381	55
SPC-12-50	12	50	600	1200	600	CUB0612061	65
SPC-12-75	12	75	600	1200	600	CUB0612061	75
SPC-24-15	24	15	500	790	380	CUB0579381	60
SPC-24-25	24	25	500	790	380	CUB0579381	65
SPC-24-50	24	50	600	1200	600	CUB0612061	95
SPC-24-75	24	75	600	1200	600	CUB0612061	115
SPC-48-15	48	15	500	790	380	CUB0579381	70
SPC-48-25	48	25	500	790	380	CUB0579381	75
SPC-48-50	48	50	600	1200	600	CUB0612061	90
SPC-48-75	48	75	600	1200	600	CUB0612061	135
SPC-110-15	110	15	500	790	380	CUB0579381	100
SPC-110-25	110	25	500	790	380	CUB0579381	125
SPC-110-50	110	50	600	1200	600	CUB0612061	250
SPC-110-75	110	75	600	1200	600	CUB0612061	290
SPC-220-15	220	15	500	790	380	CUB0579381	140
SPC-220-25	220	25	500	790	380	CUB0579381	270
SPC-220-50	220	50	600	1200	600	CUB0612061	500
SPC-220-75	220	75	600	1200	600	CUB0612061	550

3 Phase Models Standard Cabinets' Dimensions and Estimated Weight

Model	Output		Dimensions (mm)			Cabinet Model	Estimated Weight (kg)
	Vdc	Amps	Width	Height	Depth		
TPC-12-25	12	25	600	1200	600	CUB0612061	60
TPC-12-50	12	50	600	1200	600	CUB0612061	80
TPC-12-75	12	75	600	1200	600	CUB0612061	100
TPC-12-100	12	100	600	1800	600	CUB0618061	130
TPC-12-150	12	150	600	1800	600	CUB0618060	160
TPC-12-200	12	200	600	1800	600	CUB0618061	200
TPC-12-300	12	300	600	1800	600	CUB0618061	250
TPC-24-25	24	25	600	1200	600	CUB0612061	80
TPC-24-50	24	50	600	1200	600	CUB0612061	120
TPC-24-75	24	75	600	1200	600	CUB0612061	185
TPC-24-100	24	100	600	1200	600	CUB0618061	190
TPC-24-150	24	150	600	1200	600	CUB0618061	220
TPC-24-200	24	200	600	1200	600	CUB0618061	260
TPC-24-300	24	300	600	1200	600	CUB0618061	410
TPC-48-25	48	25	600	1200	600	CUB0612061	125
TPC-48-50	48	50	600	1200	600	CUB0612061	150
TPC-48-75	48	75	600	1200	600	CUB0612061	220
TPC-48-100	48	100	600	1800	600	CUB0618061	245
TPC-48-150	48	150	600	1800	600	CUB0618061	410
TPC-48-200	48	200	600	1800	600	CUB0618061	430
TPC-48-300	48	300	600	1800	600	CUB0618061	560
TPC-110-25	110	25	600	1200	600	CUB0612061	150
TPC-110-50	110	50	600	1200	600	CUB0612061	270
TPC-110-75	110	75	600	1200	600	CUB0612061	400
TPC-110-100	110	100	600	1800	600	CUB0618061	425
TPC-110-150	110	150	600	1800	600	CUB0618061	490
TPC-110-200	110	200	600	1800	600	CUB0618061	630
TPC-110-300	110	300	600	1800	600	CUB0618061	920
TPC-220-25	220	25	600	1200	600	CUB0612061	190
TPC-220-50	220	50	600	1200	600	CUB0612061	390
TPC-220-75	220	75	600	1200	600	CUB0612061	490
TPC-220-100	220	100	600	1800	600	CUB0618061	530
TPC-220-150	220	150	600	1800	600	CUB0618061	750
TPC-220-200	220	200	600	1800	600	CUB0618062	900
TPC-220-300	220	300	600	1800	600	CUB0618062	1300
TPC-400-25	400	25	600	1200	600	CUB0612061	350
TPC-400-50	400	50	600	1800	600	CUB0618061	700
TPC-400-75	400	75	600	1800	600	CUB0618061	780
TPC-400-100	400	100	600	1800	600	CUB0618061	850
TPC-400-150	400	150	600	1800	600	CUB0618062	950
TPC-400-200	400	200	600	1800	600	CUB0618062	1100
TPC-400-300	400	300	600	1800	600	CUB0618062	1400

## 3P Power One Stop Solution



Authorised Reseller:



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