

3P Power

Passion P Profession P Perfection



PRODUCT CATALOGUE

Brilliant Series Industrial DC Power Supply

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Brilliant Series DC UPS are suitable for both Industrial and Commercial Environment



* 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

- **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 Control - URC 1

- **Design and Development in Singapore**

Universal Rectifier Control card, thyristors 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.



Universal Rectifier Control - URC2



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**

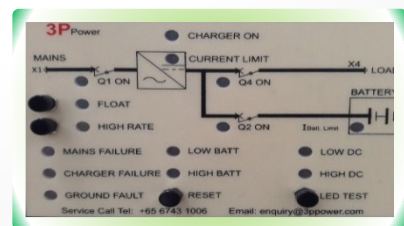
It is considerate in allowing access to all of the electronic cards and power components in the unit through the front panel for further maintenance and replacement.

- **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.



Control & Alarm Display Card

Brilliant Series Industrial DC Power Supply

Single Phase 12V Standard Technical Data

Model	SPC 12-15	SPC 12-25	SPC 12-50	SPC 12-100
Output Capacity (V / A)	12V / 15A	12V / 25A	12V / 50A	12V / 100A
RECTIFIER INPUT				
Phase	1 Phase, L+N+G			
Input PF	0.8 at nominal input and float voltage			
Input Voltage	220V / 230V / 240V +/- 15%			
Input frequency	50Hz / 60Hz +/- 5%			
RECTIFIER DC OUTPUT				
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 Overcurrent	110% continuous of nominal DC current			
Characteristic	Constant current / constant voltage according to IU IEC 60478-1			
High Pot Test	2.5KV / 1min			
Megger Test	500Vdc			
MECHANICAL SPECIFICATION				
Degree of Protection	IP 20 according to IEC 60529 & 60144 Standard (Other IP ratings are available on request)			
Equipment Colour	RAL7035 come with powder and anti-rust coating (Other colours are available on request)			
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, derating @ 1% per 100m above 1000m			
Safety	IEC 62040-1-2, Functionality IEC 60146-1-1			
Environment	RoHS			
PHYSICAL				
Gross Weight (KG)	50	55	65	75
Cabinet Model	CUB0579381	CUB0579381	CUB0612061	CUB0612061
Unit Dimension (W * D * H)mm	500 * 380 * 790	500 * 380 * 790	600 * 600 * 1200	600 * 600 * 1200

Single Phase 24V Standard Technical Data

Model	SPC 24-15	SPC 24-25	SPC 24-50	SPC 24-100
Output Capacity (V / A)	24V / 15A	24V / 25A	24V / 50A	24V / 100A
RECTIFIER INPUT				
Phase	1 Phase, L+N+G			
Input PF	0.8 at nominal input and float voltage			
Input Voltage	220V / 230V / 240V +/- 15%			
Input frequency	50Hz / 60Hz +/- 5%			
RECTIFIER DC OUTPUT				
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 Overcurrent	110% continuous of nominal DC current			
Characteristic	Constant current / constant voltage according to IU IEC 60478-1			
High Pot Test	2.5KV / 1min			
Megger Test	500Vdc			
MECHANICAL SPECIFICATION				
Degree of Protection	IP 20 according to IEC 60529 & 60144 Standard (Other IP ratings are available on request)			
Equipment Colour	RAL7035 come with powder and anti-rust coating (Other colours are available on request)			
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, derating @ 1% per 100m above 1000m			
Safety	IEC 62040-1-2, Functionality IEC 60146-1-1			
Environment	RoHS			
PHYSICAL				
Gross Weight (KG)	60	65	95	115
Cabinet Model	CUB0579381	CUB0579381	CUB0612061	CUB0612061
Unit Dimension (W * D *H)mm	500 * 380 * 790	500 * 380 * 790	600 * 600 * 1200	600 * 600 * 1200

Single Phase 48V Standard Technical Data

Model	SPC 48-15	SPC 48-25	SPC 48-50	SPC 48-100
Output Capacity (V / A)	48V / 15A	48V / 25A	48V / 50A	48V / 100A
RECTIFIER INPUT				
Phase	1 Phase, L+N+G			
Input PF	0.8 at nominal input and float voltage			
Input Voltage	220V / 230V / 240V +/- 15%			
Input frequency	50Hz / 60Hz +/- 5%			
RECTIFIER DC OUTPUT				
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 Overcurrent	110% continuous of nominal DC current			
Characteristic	Constant current / constant voltage according to IU IEC 60478-1			
High Pot Test	2.5KV / 1min			
Megger Test	500Vdc			
MECHANICAL SPECIFICATION				
Degree of Protection	IP 20 according to IEC 60529 & 60144 Standard (Other IP ratings are available on request)			
Equipment Colour	RAL7035 come with powder and anti-rust coating (Other colours are available on request)			
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,derating @ 1% per 100m above 1000m			
Safety	IEC 62040-1-2, Functionality IEC 60146-1-1			
Environment	RoHS			
PHYSICAL				
Gross Weight (KG)	70	75	90	135
Cabinet Model	CUB0579381	CUB0579381	CUB0612061	CUB0612061
Unit Dimension (W * D * H)mm	500 * 380 * 790	500 * 380 * 790	600 * 600 * 1200	600 * 600 * 1200

Brilliant Series Industrial DC Power Supply

Single Phase 110V Standard Technical Data

Model	SPC 110-15	SPC 110-25	SPC 110-50	SPC 110-75
Output Capacity (V / A)	110V / 15A	110V / 25A	110V / 50A	110V / 75A
RECTIFIER INPUT				
Phase	1 Phase, L+N+G			
Input PF	0.8 at nominal input and float voltage			
Input Voltage	220V / 230V / 240V +/- 15%			
Input frequency	50Hz / 60Hz +/- 5%			
RECTIFIER DC OUTPUT				
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 Overcurrent	110% continuous of nominal DC current			
Characteristic	Constant current / constant voltage according to IU IEC 60478-1			
High Pot Test	2.5KV / 1min			
Megger Test	500Vdc			
MECHANICAL SPECIFICATION				
Degree of Protection	IP 20 according to IEC 60529 & 60144 Standard (Other IP ratings are available on request)			
Equipment Colour	RAL7035 come with powder and anti-rust coating (Other colours are available on request)			
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, derating @ 1% per 100m above 1000m			
Safety	IEC 62040-1-2, Functionality IEC 60146-1-1			
Environment	RoHS			
PHYSICAL				
Gross Weight (KG)	100	125	250	290
Cabinet Model	CUB0579381	CUB0579381	CUB0612061	CUB0612061
Unit Dimension (W * D * H)mm	500 * 380 * 790	500 * 380 * 790	600 * 600 * 1200	600 * 600 * 1200

Brilliant Series Industrial DC Power Supply

Single Phase 220V Standard Technical Data

Model	SPC 220-15	SPC 220-25	SPC 220-50	SPC 220-75
Output Capacity (V / A)	220V / 15A	220V / 25A	220V / 50A	220V / 75A
RECTIFIER INPUT				
Phase	1 Phase, L+N+G			
Input PF	0.8 at nominal input and float voltage			
Input Voltage	220V / 230V / 240V +/- 15%			
Input frequency	50Hz / 60Hz +/- 5%			
RECTIFIER DC OUTPUT				
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 Overcurrent	110% continuous of nominal DC current			
Characteristic	Constant current / constant voltage according to IU IEC 60478-1			
High Pot Test	2.5KV / 1min			
Megger Test	500Vdc			
MECHANICAL SPECIFICATION				
Degree of Protection	IP 20 according to IEC 60529 & 60144 Standard (Other IP ratings are available on request)			
Equipment Colour	RAL7035 come with powder and anti-rust coating (Other colours are available on request)			
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, derating @ 1% per 100m above 1000m			
Safety	IEC 62040-1-2, Functionality IEC 60146-1-1			
Environment	RoHS			
PHYSICAL				
Gross Weight (KG)	140	270	500	550
Cabinet Model	CUB0579381	CUB0579381	CUB0612061	CUB0612061
Unit Dimension (W * D * H)mm	500 * 380 * 790	500 * 380 * 790	600 * 600 * 1200	600 * 600 * 1200

Three Phase 24V Standard Technical Data

Model	TPC 24-25	TPC 24-50	TPC 24-75	TPC 24-100	TPC 24-150	TPC 24-200	TPC 24-300
Output Capacity (V / A)	24V / 25A	24V / 50A	24V / 75A	24V / 100A	24V / 150A	24V / 200A	24V / 300A
RECTIFIER INPUT							
Phase	3 Phase, 3W+G						
Input PF	0.8 at nominal input and float voltage						
Input Voltage	380V / 400V / 415V +/- 15%						
Input frequency	50Hz / 60Hz +/- 5%						
RECTIFIER DC OUTPUT							
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 Overcurrent	110% continuous of nominal DC current						
Characteristic	Constant current / constant voltage according to IU IEC 60478-1						
High Pot Test	2.5KV / 1min						
Megger Test	500Vdc						
MECHANICAL SPECIFICATION							
Degree of Protection	IP 20 according to IEC 60529 & 60144 Standard (Other IP ratings are available on request)						
Equipment Colour	RAL7035 come with powder and anti-rust coating (Other colours are available on request)						
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, derating @ 1% per 100m above 1000m						
Safety	IEC 62040-1-2, Functionality IEC 60146-1-1						
Environment	RoHS						
PHYSICAL							
Gross Weight (KG)	80	120	185	190	220	260	410
Cabinet Model	CUB0612061	CUB0612061	CUB0612061	CUB0618061	CUB0618061	CUB0618061	CUB0618061
Unit Dimension (W * D * H)mm	600 * 600 * 1200	600 * 600 * 1200	600 * 600 * 1200	600 * 600 * 1800	600 * 600 * 1800	600 * 600 * 1800	600 * 600 * 1800

Three Phase 24V Standard Technical Data

Model	TPC 24-400	TPC 24-600	TPC 24-800	TPC 24-1000	TPC 24-1200
Output Capacity (V / A)	24V / 400A	24V / 600A	24V / 800A	24V / 1000A	24V / 1200A
RECTIFIER INPUT					
Phase	3 Phase, 3W+G				
Input PF	0.8 at nominal input and float voltage				
Input Voltage	380V / 400V / 415V +/- 15%				
Input frequency	50Hz / 60Hz +/- 5%				
RECTIFIER DC OUTPUT					
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 Overcurrent	110% continuous of nominal DC current				
Characteristic	Constant current / constant voltage according to IU IEC 60478-1				
High Pot Test	2.5KV / 1min				
Megger Test	500Vdc				
MECHANICAL SPECIFICATION					
Degree of Protection	IP 20 according to IEC 60529 & 60144 Standard (Other IP ratings are available on request)				
Equipment Colour	RAL7035 come with powder and anti-rust coating (Other colours are available on request)				
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, derating @ 1% per 100m above 1000m				
Safety	IEC 62040-1-2, Functionality IEC 60146-1-1				
Environment	RoHS				
PHYSICAL					
Gross Weight (KG)	500	700	880	1050	1350
Cabinet Model	CUB0818061	CUB0818061	CUB0818081	CUB1018081	CUB1018081
Unit Dimension (W * D * H)mm	800 * 600 * 1800	800 * 600 * 1800	800 * 800 * 1800	1000 * 800 * 1800	1000 * 800 * 1800

Three Phase 48V Standard Technical Data

Model	TPC 48-25	TPC 48-50	TPC 48-75	TPC 48-100	TPC 48-150	TPC 48-200	TPC 48-300
Output Capacity (V / A)	48V / 25A	48V / 50A	48V / 75A	48V / 100A	48V / 150A	48V / 200A	48V / 300A
RECTIFIER INPUT							
Phase	3 Phase, 3W+G						
Input PF	0.8 at nominal input and float voltage						
Input Voltage	380V / 400V / 415V +/- 15%						
Input frequency	50Hz / 60Hz +/- 5%						
RECTIFIER DC OUTPUT							
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 Overcurrent	110% continuous of nominal DC current						
Characteristic	Constant current / constant voltage according to IU IEC 60478-1						
High Pot Test	2.5KV / 1min						
Megger Test	500Vdc						
MECHANICAL SPECIFICATION							
Degree of Protection	IP 20 according to IEC 60529 & 60144 Standard (Other IP ratings are available on request)						
Equipment Colour	RAL7035 come with powder and anti-rust coating (Other colours are available on request)						
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, derating @ 1% per 100m above 1000m						
Safety	IEC 62040-1-2, Functionality IEC 60146-1-1						
Environment	RoHS						
PHYSICAL							
Gross Weight (KG)	125	150	220	245	410	430	560
Cabinet Model	CUB0612061	CUB0612061	CUB0612061	CUB0618061	CUB0618061	CUB0618061	CUB0618061
Unit Dimension (W * D * H)mm	600 * 600 * 1200	600 * 600 * 1200	600 * 600 * 1200	600 * 600 * 1800	600 * 600 * 1800	600 * 600 * 1800	600 * 600 * 1800

Three Phase 24V Standard Technical Data

Model	TPC 48-400	TPC 48-600	TPC 48-800	TPC 48-1000	TPC 48-1200
Output Capacity (V / A)	48V / 400A	48V / 600A	48V / 800A	48V / 1000A	48V / 1200A
RECTIFIER INPUT					
Phase	3 Phase, 3W+G				
Input PF	0.8 at nominal input and float voltage				
Input Voltage	380V / 400V / 415V +/- 15%				
Input frequency	50Hz / 60Hz +/- 5%				
RECTIFIER DC OUTPUT					
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 Overcurrent	110% continuous of nominal DC current				
Characteristic	Constant current / constant voltage according to IU IEC 60478-1				
High Pot Test	2.5KV / 1min				
Megger Test	500Vdc				
MECHANICAL SPECIFICATION					
Degree of Protection	IP 20 according to IEC 60529 & 60144 Standard (Other IP ratings are available on request)				
Equipment Colour	RAL7035 come with powder and anti-rust coating (Other colours are available on request)				
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, derating @ 1% per 100m above 1000m				
Safety	IEC 62040-1-2, Functionality IEC 60146-1-1				
Environment	RoHS				
PHYSICAL					
Gross Weight (KG)	550	780	950	1150	1450
Cabinet Model	CUB0818061	CUB0818061	CUB0818081	CUB1018081	CUB1018081
Unit Dimension (W * D * H)mm	800 * 600 * 1800	800 * 600 * 1800	800 * 800 * 1800	1000 * 800 * 1800	1000 * 800 * 1800

Three Phase 110V Standard Technical Data

Model	TPC 110-25	TPC 110-50	TPC 110-75	TPC 110-100	TPC 110-150	TPC 110-200	TPC 110-300
Output Capacity (V / A)	110V / 25A	110V / 50A	110V / 75A	110V / 100A	110V / 150A	110V / 200A	110V / 300A
RECTIFIER INPUT							
Phase	3 Phase, 3W+G						
Input PF	0.8 at nominal input and float voltage						
Input Voltage	380V / 400V / 415V +/- 15%						
Input frequency	50Hz / 60Hz +/- 5%						
RECTIFIER DC OUTPUT							
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 Overcurrent	110% continuous of nominal DC current						
Characteristic	Constant current / constant voltage according to IU IEC 60478-1						
High Pot Test	2.5KV / 1min						
Megger Test	500Vdc						
MECHANICAL SPECIFICATION							
Degree of Protection	IP 20 according to IEC 60529 & 60144 Standard (Other IP ratings are available on request)						
Equipment Colour	RAL7035 come with powder and anti-rust coating (Other colours are available on request)						
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, derating @ 1% per 100m above 1000m						
Safety	IEC 62040-1-2, Functionality IEC 60146-1-1						
Environment	RoHS						
PHYSICAL							
Gross Weight (KG)	150	270	400	425	490	630	920
Cabinet Model	CUB0612061	CUB0612061	CUB0612061	CUB0618061	CUB0618061	CUB0618061	CUB0818061
Unit Dimension (W * D * H)mm	600 * 600 * 1200	600 * 600 * 1200	600 * 600 * 1200	600 * 600 * 1800	600 * 600 * 1800	600 * 600 * 1800	800 * 600 * 1800

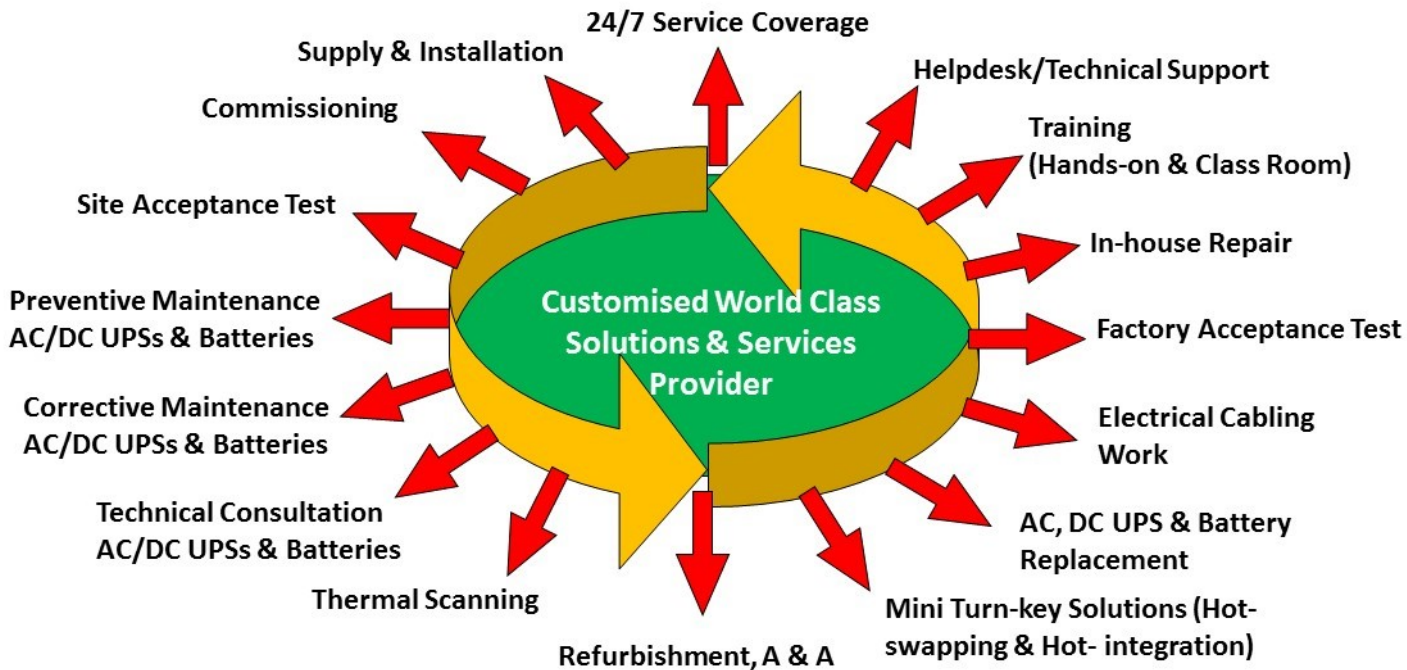
Three Phase 220V Standard Technical Data

Model	TPC 220-25	TPC 220-50	TPC 220-75	TPC 220-100	TPC 220-150	TPC 220-200	TPC 220-300
Output Capacity (V / A)	220V / 25A	220V / 50A	220V / 75A	220V / 100A	220V / 150A	220V / 200A	220V / 300A
RECTIFIER INPUT							
Phase	3 Phase, 3W+G						
Input PF	0.8 at nominal input and float voltage						
Input Voltage	380V / 400V / 415V +/- 15%						
Input frequency	50Hz / 60Hz +/- 5%						
RECTIFIER DC OUTPUT							
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 Overcurrent	110% continuous of nominal DC current						
Characteristic	Constant current / constant voltage according to IU IEC 60478-1						
High Pot Test	2.5KV / 1min						
Megger Test	500Vdc						
MECHANICAL SPECIFICATION							
Degree of Protection	IP 20 according to IEC 60529 & 60144 Standard (Other IP ratings are available on request)						
Equipment Colour	RAL7035 come with powder and anti-rust coating (Other colours are available on request)						
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, derating @ 1% per 100m above 1000m						
Safety	IEC 62040-1-2, Functionality IEC 60146-1-1						
Environment	RoHS						
PHYSICAL							
Gross Weight (KG)	190	390	490	530	750	900	1300
Cabinet Model	CUB0612061	CUB0612061	CUB0612061	CUB0618061	CUB0618061	CUB0618062	CUB0618062
Unit Dimension (W * D * H)mm	600 * 600 * 1200	600 * 600 * 1200	600 * 600 * 1200	600 * 600 * 1800	600 * 600 * 1800	1200 * 600 * 1800	1200 * 600 * 1800

Three Phase 400V Standard Technical Data

Model	TPC 400-25	TPC 400-55	TPC 400-75	TPC 400-100	TPC 400-150	TPC 400-200	TPC 400-300
Output Capacity (V / A)	400V / 25A	400V / 55A	400V / 75A	400V / 100A	400V / 150A	400V / 200A	400V / 300A
RECTIFIER INPUT							
Phase	3 Phase, 3W+G						
Input PF	0.8 at nominal input and float voltage						
Input Voltage	380V / 400V / 415V +/- 15%						
Input frequency	50Hz / 60Hz +/- 5%						
RECTIFIER DC OUTPUT							
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 Overcurrent	110% continuous of nominal DC current						
Characteristic	Constant current / constant voltage according to IU IEC 60478-1						
High Pot Test	2.5KV / 1min						
Megger Test	500Vdc						
MECHANICAL SPECIFICATION							
Degree of Protection	IP 20 according to IEC 60529 & 60144 Standard (Other IP ratings are available on request)						
Equipment Colour	RAL7035 come with powder and anti-rust coating (Other colours are available on request)						
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, derating @ 1% per 100m above 1000m						
Safety	IEC 62040-1-2, Functionality IEC 60146-1-1						
Environment	RoHS						
PHYSICAL							
Gross Weight (KG)	350	700	780	850	950	1100	1400
Cabinet Model	CUB0612061	CUB0618061	CUB0618061	CUB0618061	CUB0618062	CUB0618062	CUB0618062
Unit Dimension (W * D * H)mm	600 * 600 * 1200	600 * 600 * 1800	600 * 600 * 1800	600 * 600 * 1800	1200 * 600 * 1800	1200 * 600 * 1800	1200 * 600 * 1800

3P Power One Stop Solution



3P Power

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