

Passion Profession Perfection



# PRODUCT CATALOGUE

**Brilliant Series Industrial DC Power Supply** 

### **Brilliant Series Industrial DC Power Supply**





# 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

#### 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

# • 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

# 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			nput and float voltage							
Input Voltage			)V / 240V +/- 15%							
Input frequency			<sup>′</sup> 60Hz +/- 5%							
RECTIFIER DC OUTPUT										
Adjustable Range	From 8	0% to 135% of nomina	l voltage at +/- 15% of r	ectifier input						
Stability (Static)			cted and standard recti							
Stability (Dynamic)			0% to 100% and vice vis							
Recovery Time		< 250ms to	be in static state	· · · · · ·						
Ripple Voltage		< 5% withou	t battery connected							
Nominal DC Current	From		er ratings are available	on request)						
Adjustable Range	0 to 1	100% both rectifier cur	rent limit and battery c	urrent limit						
Current Accuracy		+/- 1.5	% of set point							
DC Overcurrent		110% continuou	s of nominal DC current							
Characteristic	Const	ant current / constant	voltage according to IU	IEC 60478-1						
High Pot Test		2.5	KV / 1min							
Megger Test			500Vdc							
MECHANICAL SPECIFICA	TION									
Degree of Protection	IP 20 according to	IEC 60529 & 60144 Sta	ndard (Other IP ratings	are available on request)						
Equipment Colour				are available on request)						
Acoustic Noise Level		≤ 65 a	t 1m typically							
Connection		Top or Bottom Entry a	as per customer require	ment						
ENVIRONMENTAL										
Type Of Cooling		Nature cool up to 100	A / 220Vdc and forced c	ooling						
Operating		0 Dogroo Colsiu	s to 45 Degree Celsius							
Temperature			_							
Storage Temperature			us to 70 Degree Celsius							
Humidity			on Condensing)							
Installation Height			@ 1% per 100m above 1							
Safety		IEC 62040-1-2, Fu	nctionality 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 i	nput and float voltage						
Input Voltage		220V / 230	V / 240V +/- 15%						
Input frequency		50Hz /	60Hz +/- 5%						
RECTIFIER DC OUTPUT									
Adjustable Range	From 8	0% to 135% of nominal	voltage at +/- 15% of r	ectifier input					
Stability (Static)	+/-	1.5% at DC load connect	cted and standard recti	fier input					
Stability (Dynamic)	-/+ 5% a	at load changed from 10	% to 100% and vice vis	a respectively					
Recovery Time		< 250ms to	be in static state						
Ripple Voltage		< 5% without	battery connected						
Nominal DC Current	From	15Adc to 500Adc (High	er ratings are available	on request)					
Adjustable Range	0 to :	100% both rectifier curr	ent limit and battery c	urrent limit					
Current Accuracy		+/- 1.5%	% of set point						
DC Overcurrent		110% continuous	s of nominal DC current						
Characteristic	Const	ant current / constant v	oltage according to IU	IEC 60478-1					
High Pot Test		2.51	<v 1min<="" td=""><td></td></v>						
Megger Test		5	600Vdc						
MECHANICAL SPECIFICAT	ΓΙΟΝ								
Degree of Protection	IP 20 according to	IEC 60529 & 60144 Star	ndard (Other IP ratings	are available on request)					
Equipment Colour	RAL7035 come wit	h powder and anti-rust	coating (Other colours	are available on request)					
Acoustic Noise Level		≤ 65 at	1m typically						
Connection		Top or Bottom Entry a	s per customer require	ment					
ENVIRONMENTAL									
Type Of Cooling		Nature cool up to 100A	/ 220Vdc and forced c	ooling					
Operating Temperature		0 Degree Celsius	s to 45 Degree Celsius						
Storage Temperature		-20 Degree Celsiu	us to 70 Degree Celsius						
Humidity		< 95% (No	on Condensing)						
Installation Height		0 to 1000m, derating @	0 1% per 100m above 1	.000m					
Safety		IEC 62040-1-2, Fur	ctionality 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 Pha	ase, L+N+G	
Input PF		0.8 at nominal in	nput and float voltage	
Input Voltage		220V / 230	V / 240V +/- 15%	
Input frequency		50Hz /	60Hz +/- 5%	
<b>RECTIFIER DC OUTPUT</b>				
Adjustable Range	From 8	0% to 135% of nominal	voltage at +/- 15% of r	ectifier input
Stability (Static)	+/-	1.5% at DC load connect	cted and standard recti	fier input
Stability (Dynamic)	-/+ 5% a	at load changed from 10	% to 100% and vice vis	a respectively
Recovery Time		< 250ms to	be in static state	
Ripple Voltage		< 5% without	battery connected	
Nominal DC Current	From	15Adc to 500Adc (High	er ratings are available	on request)
Adjustable Range	0 to	100% both rectifier curr	ent limit and battery c	urrent limit
Current Accuracy		+/- 1.5%	6 of set point	
DC Overcurrent		110% continuous	s of nominal DC current	
Characteristic	Const	ant current / constant v	oltage according to IU	IEC 60478-1
High Pot Test		2.51	<v 1min<="" td=""><td></td></v>	
Megger Test		5	00Vdc	
MECHANICAL SPECIFICA	TION			
Degree of Protection	IP 20 according to	IEC 60529 & 60144 Star	ndard (Other IP ratings	are available on request)
Equipment Colour	RAL7035 come wit	h powder and anti-rust	coating (Other colours	are available on request)
Acoustic Noise Level		≤ 65 at	1m typically	
Connection		Top or Bottom Entry a	s per customer require	ment
ENVIRONMENTAL				
Type Of Cooling		Nature cool up to 100A	/ 220Vdc and forced c	ooling
Operating Temperature		0 Degree Celsius	s to 45 Degree Celsius	
Storage Temperature		-20 Degree Celsiu	us to 70 Degree Celsius	
Humidity		< 95% (No	on Condensing)	
Installation Height		0 to 1000m, derating @	9 1% per 100m above 1	000m
Safety		IEC 62040-1-2, Fun	ctionality 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

# 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 Pha	ase, L+N+G	
Input PF		0.8 at nominal i	nput and float voltage	
Input Voltage		220V / 230	V / 240V +/- 15%	
Input frequency		50Hz /	60Hz +/- 5%	
RECTIFIER DC OUTPUT				
Adjustable Range	From 8	80% to 135% of nomina	l voltage at +/- 15% of r	ectifier input
Stability (Static)	+/-	1.5% at DC load conne	cted and standard recti	fier input
Stability (Dynamic)	-/+ 5% a	at load changed from 10	0% to 100% and vice vis	a respectively
Recovery Time		< 250ms to	be in static state	
Ripple Voltage		< 5% without	battery connected	
Nominal DC Current	From	15Adc to 500Adc (High	er ratings are available	on request)
Adjustable Range	0 to 1	100% both rectifier curi	rent limit and battery c	urrent limit
Current Accuracy		+/- 1.59	% of set point	
DC Overcurrent		110% continuous	of nominal DC current	
Characteristic	Const	ant current / constant v	oltage according to IU	IEC 60478-1
High Pot Test		2.5	KV / 1min	
Megger Test		Ľ	500Vdc	
MECHANICAL SPECIFICA	TION			
Degree of Protection	IP 20 according to	IEC 60529 & 60144 Star	ndard (Other IP ratings	are available on request)
Equipment Colour	RAL7035 come wit	h powder and anti-rust	coating (Other colours	are available on request)
Acoustic Noise Level		≤ 65 at	: 1m typically	
Connection		Top or Bottom Entry a	s per customer require	ment
ENVIRONMENTAL				
Type Of Cooling		Nature cool up to 100A	A / 220Vdc and forced c	ooling
Operating Temperature		0 Degree Celsiu	s to 45 Degree Celsius	
Storage Temperature		-20 Degree Celsi	us to 70 Degree Celsius	
Humidity		< 95% (N	on Condensing)	
Installation Height		0 to 1000m, derating @	🦻 1% per 100m above 1	000m
Safety		IEC 62040-1-2, Fur	nctionality 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

# 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 Ph	ase, L+N+G					
Input PF		0.8 at nominal i	nput and float voltage					
Input Voltage		220V / 230	V / 240V +/- 15%					
Input frequency		50Hz /	60Hz +/- 5%					
RECTIFIER DC OUTPUT								
Adjustable Range	From 8	0% to 135% of nomina	l voltage at +/- 15% of r	ectifier input				
Stability (Static)	+/-	1.5% at DC load conne	cted and standard recti	fier input				
Stability (Dynamic)	-/+ 5% a	at load changed from 10	0% to 100% and vice vis	a respectively				
Recovery Time		< 250ms to	be in static state					
Ripple Voltage		< 5% without	battery connected					
Nominal DC Current	From	15Adc to 500Adc (High	er ratings are available	on request)				
Adjustable Range	0 to :	100% both rectifier cur	rent limit and battery cu	urrent limit				
Current Accuracy		+/- 1.55	% of set point					
DC Overcurrent		110% continuous	of nominal DC current					
Characteristic	Const	ant current / constant v	oltage according to IU	IEC 60478-1				
High Pot Test		2.5	KV / 1min					
Megger Test		1	500Vdc					
MECHANICAL SPECIFICA	TION							
Degree of Protection	IP 20 according to	IEC 60529 & 60144 Sta	ndard (Other IP ratings	are available on request)				
Equipment Colour	RAL7035 come wit	h powder and anti-rust	coating (Other colours	are available on request)				
Acoustic Noise Level		≤ 65 at	: 1m typically					
Connection		Top or Bottom Entry a	s per customer require	ment				
ENVIRONMENTAL								
Type Of Cooling		Nature cool up to 100A	/ 220Vdc and forced c	ooling				
Operating Temperature		0 Degree Celsiu	s to 45 Degree Celsius					
Storage Temperature		-20 Degree Celsi	us to 70 Degree Celsius					
Humidity		< 95% (N	on Condensing)					
Installation Height		0 to 1000m, derating @	🦻 1% per 100m above 1	000m				
Safety		IEC 62040-1-2, Fur	nctionality 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 24-5	0 TPC 24-7	5 TPC 24-10	0 TPC 24-15	0 TPC 24-200	TPC 24-300			
Output Capacity (V / A)	24V / 25A	24V / 50A	a 24V / 75/	a 24V / 100/	A 24V / 150/	A 24V / 200A	24V / 300A			
RECTIFIER INPUT										
Phase				3 Phase, 3W	+G					
Input PF			0.8 at noi	ninal input an	d float voltag	9				
Input Voltage			380\	/ / 400V / 415V	/ +/- 15%					
Input frequency				50Hz / 60Hz +,	′- 5%					
<b>RECTIFIER DC OUTPUT</b>	-									
Adjustable Range		From 80%	to 135% of n	ominal voltage	at +/- 15% o	f rectifier input				
Stability (Static)		+/- 1.5	5% at DC load	connected and	l standard re	ctifier input				
Stability (Dynamic)		-/+ 5% at lo	oad changed f	rom 10% to 10	0% and vice	visa respectivel	У			
Recovery Time			< 250	Oms to be in st	atic state					
Ripple Voltage			< 5% w	vithout battery	connected					
Nominal DC Current		From 15	Adc to 500Add	: (Higher rating	gs are availab	le on request)				
Adjustable Range		0 to 100	)% both rectifi	er current limi	t and battery	current limit				
Current Accuracy			4	-/- 1.5% of set	point					
DC Overcurrent			110% cont	inuous of nom	inal DC curre	nt				
Characteristic		Constant	current / con	stant voltage a	according to I	U IEC 60478-1				
High Pot Test				2.5KV / 1m	in					
Megger Test				500Vdc						
MECHANICAL SPECIFIC	TION									
Degree of Protection	IP 20 ac	cording to IEC	60529 & 601	44 Standard (C	ther IP rating	gs are available	on request)			
Equipment Colour	RAL703	5 come with p	owder and an	ti-rust coating	(Other colou	rs are available	on request)			
Acoustic Noise Level			:	≤ 65 at 1m typ	ically					
Connection		Тс	p or Bottom I	Entry as per cu	stomer requi	rement				
ENVIRONMENTAL										
Type Of Cooling		Na	ture cool up to	o 100A / 220V	dc and forced	cooling				
Operating Temperature			0 Degree	Celsius to 45 [	Degree Celsiu	S				
Storage Temperature			-20 Degree	e Celsius to 70	Degree Celsi	JS				
Humidity			< 9	5% (Non Cond	ensing)					
Installation Height		0 t	o 1000m, dera	ating @ 1% pe	r 100m above	e 1000m				
Safety			IEC 62040-1	-2, Functionali	ty 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						

# 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		380\	/ / 400V / 415V +/- :	15%					
Input frequency			50Hz / 60Hz +/- 5%						
RECTIFIER DC OUTPUT									
Adjustable Range	From	n 80% to 135% of n	ominal voltage at +/	- 15% of rectifier in	put				
Stability (Static)	-	+/- 1.5% at DC load	connected and stan	dard rectifier input					
Stability (Dynamic)	-/+ 59	% at load changed f	rom 10% to 100% a	nd vice visa respect	ively				
Recovery Time		< 25	Oms to be in static s	tate					
Ripple Voltage		< 5% w	ithout battery conr	nected					
Nominal DC Current	Fro	m 15Adc to 500Ad	c (Higher ratings are	available on reque	st)				
Adjustable Range	0 t	o 100% both rectifi	ier current limit and	battery current lim	iit				
Current Accuracy		-	-/- 1.5% of set point						
DC Overcurrent		110% cont	inuous of nominal D	OC current					
Characteristic	Cor	nstant current / con	stant voltage accord	ding to IU IEC 60478	3-1				
High Pot Test			2.5KV / 1min						
Megger Test			500Vdc						
MECHANICAL SPECIFICA	TION								
Degree of Protection	IP 20 according	to IEC 60529 & 601	44 Standard (Other	IP ratings are availa	ble on request)				
Equipment Colour	RAL7035 come v	vith powder and an	ti-rust coating (Oth	er colours are availa	able on request)				
Acoustic Noise Level		:	≤ 65 at 1m typically						
Connection		Top or Bottom I	Entry as per custom	er requirement					
ENVIRONMENTAL									
Type Of Cooling		Nature cool up t	o 100A / 220Vdc an	d forced cooling					
Operating Temperature		0 Degree	Celsius to 45 Degre	e Celsius					
Storage Temperature		-20 Degree	e Celsius to 70 Degr	ee Celsius					
Humidity		< 9	5% (Non Condensin	ıg)					
Installation Height		0 to 1000m, der	ating @ 1% per 100	m 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 48-5	0 TPC 48-7	5 TPC 48-10	0 TPC 48-15	0 TPC 48-200	TPC 48-300			
Output Capacity (V / A)	48V / 25A	48V / 50A	48V / 75	4 48V / 100	48V / 150	A 48V / 200A	48V / 300A			
RECTIFIER INPUT										
Phase				3 Phase, 3W	+G					
Input PF		0.8 at nominal input and float voltage								
Input Voltage			380\	/ / 400V / 415V	/ +/- 15%					
Input frequency				50Hz / 60Hz +,	/- 5%					
<b>RECTIFIER DC OUTPUT</b>										
Adjustable Range		From 80%	to 135% of n	ominal voltage	at +/- 15% o	f rectifier input				
Stability (Static)		+/- 1.5	5% at DC load	connected and	l standard re	ctifier input				
Stability (Dynamic)		-/+ 5% at lo	oad changed f	rom 10% to 10	0% and vice	visa respectivel	y			
Recovery Time				Oms to be in st		-	-			
Ripple Voltage			< 5% w	ithout battery	connected					
Nominal DC Current		From 15	Adc to 500Ad	c (Higher rating	gs are availab	le on request)				
Adjustable Range		0 to 100	)% both rectifi	er current limi	t and battery	current limit				
Current Accuracy				-/- 1.5% of set	•					
DC Overcurrent				inuous of nom	-	nt				
Characteristic		Constant	current / con	stant voltage a	according to I	U IEC 60478-1				
High Pot Test				2.5KV / 1m						
Megger Test				500Vdc						
MECHANICAL SPECIFICA	TION									
Degree of Protection	IP 20 ac	cording to IEC	60529 & 601	44 Standard (C	ther IP rating	gs are available	on request)			
Equipment Colour	RAL703	5 come with p	owder and an	ti-rust coating	(Other colou	rs are available	on request)			
Acoustic Noise Level			:	≤ 65 at 1m typ	ically					
Connection		Тс	p or Bottom I	Entry as per cu	stomer requi	rement				
ENVIRONMENTAL										
Type Of Cooling		Na	ture cool up t	o 100A / 220V	dc and forced	l cooling				
Operating Temperature			0 Degree	Celsius to 45 [	Degree Celsiu	s				
Storage Temperature			-20 Degree	e Celsius to 70	Degree Celsi	us				
Humidity			< 9	5% (Non Cond	ensing)					
Installation Height		0 t	o 1000m, dera	ating @ 1% pe	r 100m above	e 1000m				
Safety			IEC 62040-1	-2, Functionali	ty 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						

# 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		380\	/ / 400V / 415V +/- :	15%						
Input frequency			50Hz / 60Hz +/- 5%							
RECTIFIER DC OUTPUT										
Adjustable Range	Fror	n 80% to 135% of n	ominal voltage at +/	- 15% of rectifier in	put					
Stability (Static)	-	+/- 1.5% at DC load	connected and stan	dard rectifier input						
Stability (Dynamic)	-/+ 59	% at load changed f	rom 10% to 100% a	nd vice visa respect	ively					
Recovery Time		< 25	Oms to be in static s	tate						
Ripple Voltage		< 5% w	vithout battery conr	ected						
Nominal DC Current	Fro	m 15Adc to 500Ad	c (Higher ratings are	available on reque	st)					
Adjustable Range	0 1	to 100% both rectifi	ier current limit and	battery current lim	iit					
Current Accuracy		-	+/- 1.5% of set point	:						
DC Overcurrent		110% cont	inuous of nominal D	OC current						
Characteristic	Cor	nstant current / con	stant voltage accor	ding to IU IEC 60478	3-1					
High Pot Test			2.5KV / 1min							
Megger Test			500Vdc							
MECHANICAL SPECIFICA	TION									
Degree of Protection	IP 20 according	to IEC 60529 & 601	44 Standard (Other	IP ratings are availa	ble on request)					
Equipment Colour	RAL7035 come v	with powder and an	ti-rust coating (Oth	er colours are availa	able on request)					
Acoustic Noise Level		:	≤ 65 at 1m typically							
Connection		Top or Bottom I	Entry as per custom	er requirement						
ENVIRONMENTAL										
Type Of Cooling		Nature cool up t	o 100A / 220Vdc an	d forced cooling						
Operating Temperature		0 Degree	Celsius to 45 Degre	e Celsius						
Storage Temperature		-20 Degree	e Celsius to 70 Degr	ee Celsius						
Humidity		< 9	95% (Non Condensin	ıg)						
Installation Height		0 to 1000m, dera	ating @ 1% per 100	m above 1000m						
Safety		IEC 62040-1	-2, Functionality IEC	2 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 110-5	0 TPC 110-7	5 TPC 110-10	0 TPC 110-15	0 TPC 110-200	TPC 110-300			
Output Capacity (V / A)	110V / 25A	110V / 504	A 110V / 75/	A 110V/100/	110V / 150	A 110V / 200A	110V / 300A			
RECTIFIER INPUT										
Phase				3 Phase, 3W	+G					
Input PF			0.8 at nor	ninal input and	d float voltage	5				
Input Voltage			380\	/ 400V / 415V	/ +/- 15%					
Input frequency				50Hz / 60Hz +/	′- 5%					
<b>RECTIFIER DC OUTPUT</b>	-									
Adjustable Range		From 80%	to 135% of n	ominal voltage	at +/- 15% o	f rectifier input	:			
Stability (Static)		+/- 1.5	5% at DC load	connected and	l standard ree	ctifier input				
Stability (Dynamic)		-/+ 5% at lo	oad changed f	rom 10% to 10	0% and vice	isa respectivel	У			
Recovery Time			< 250	Oms to be in st	atic state					
Ripple Voltage			< 5% w	ithout battery	connected					
Nominal DC Current		From 15	Adc to 500Add	: (Higher rating	gs are availab	le on request)				
Adjustable Range		0 to 100	% both rectifi	er current limi	t and battery	current limit				
Current Accuracy			+	/- 1.5% of set	point					
DC Overcurrent			110% cont	inuous of nom	inal DC curre	nt				
Characteristic		Constant	current / con	stant voltage a	according to I	U IEC 60478-1				
High Pot Test				2.5KV / 1m	n					
Megger Test				500Vdc						
MECHANICAL SPECIFICA	ATION									
Degree of Protection	IP 20 ac	cording to IEC	60529 & 6014	44 Standard (C	ther IP rating	gs are available	on request)			
Equipment Colour	RAL703	5 come with p	owder and an	ti-rust coating	(Other colou	rs are available	on request)			
Acoustic Noise Level			:	≤ 65 at 1m typ	ically					
Connection		Тс	p or Bottom E	Entry as per cu	stomer requi	rement				
ENVIRONMENTAL	-									
Type Of Cooling		Na	ture cool up to	o 100A / 220V	dc and forced	cooling				
Operating Temperature			0 Degree	Celsius to 45 [	egree Celsiu	5				
Storage Temperature			-20 Degree	e Celsius to 70	Degree Celsi	JS				
Humidity			< 9	5% (Non Cond	ensing)					
Installation Height		0 t	o 1000m, dera	ating @ 1% pe	<sup>-</sup> 100m above	1000m				
Safety			IEC 62040-1	-2, Functionali	ty 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 220-5	0 TPC 220-7	5 TPC 220-10	TPC 220-15	0 TPC 220-200	TPC 220-300			
Output Capacity (V / A)	220V / 25A	220V / 504	A 220V / 75/	A 220V/100A	220V / 150	A 220V / 200A	220V / 300A			
RECTIFIER INPUT										
Phase		3 Phase, 3W+G								
Input PF			0.8 at nor	ninal input and	d float voltag	e				
Input Voltage			380\	/ / 400V / 415\	/ +/- 15%					
Input frequency				50Hz / 60Hz +/	- 5%					
<b>RECTIFIER DC OUTPUT</b>										
Adjustable Range		From 80%	to 135% of n	ominal voltage	at +/- 15% c	of rectifier inpu	t			
Stability (Static)		+/- 1.5	5% at DC load	connected and	l standard re	ctifier input				
Stability (Dynamic)		-/+ 5% at lo	oad changed f	rom 10% to 10	0% and vice	visa respective	ly			
Recovery Time			< 250	Oms to be in st	atic state					
Ripple Voltage			< 5% w	ithout battery	connected					
Nominal DC Current		From 15	Adc to 500Add	: (Higher rating	s are availat	le on request)				
Adjustable Range		0 to 100	% both rectifi	er current limi	t and battery	/ current limit				
Current Accuracy			+	/- 1.5% of set	point					
DC Overcurrent			110% cont	inuous of nom	inal DC curre	ent				
Characteristic		Constant	current / con	stant voltage a	ccording to	IU IEC 60478-1				
High Pot Test				2.5KV / 1mi	n					
Megger Test				500Vdc						
MECHANICAL SPECIFIC	ATION									
Degree of Protection	IP 20 ac	cording to IEC	60529 & 6014	44 Standard (C	ther IP ratin	gs are available	on request)			
Equipment Colour	RAL703	5 come with p	owder and an	ti-rust coating	(Other colou	ırs are available	e on request)			
Acoustic Noise Level			:	≤ 65 at 1m typ	cally					
Connection		Тс	p or Bottom E	Entry as per cu	stomer requ	irement				
ENVIRONMENTAL										
Type Of Cooling		Na	ture cool up to	o 100A / 220Vo	dc and forced	d cooling				
Operating Temperature			0 Degree	Celsius to 45 [	egree Celsiu	S				
Storage Temperature			-20 Degree	e Celsius to 70	Degree Celsi	us				
Humidity			< 9	5% (Non Cond	ensing)					
Installation Height		0 t	o 1000m, dera	ating @ 1% pe	100m abov	e 1000m				
Safety			IEC 62040-1	-2, Functionali	ty 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 400-5	5 TPC 400-7	5 TPC 400-10	0 TPC 400-15	0 TPC 400-200	TPC 400-300		
Output Capacity (V / A)	400V / 25A	400V / 554	400V / 75	400V/100A	A 400V / 150	A 400V / 200A	400V / 300A		
RECTIFIER INPUT									
Phase				3 Phase, 3W	+G				
Input PF			0.8 at nor	ninal input and	d float voltag	e			
Input Voltage			380\	/ 400V / 415V	/ +/- 15%				
Input frequency				50Hz / 60Hz +/	′- 5%				
<b>RECTIFIER DC OUTPUT</b>									
Adjustable Range		From 80%	to 135% of n	ominal voltage	at +/- 15% c	of rectifier inpu	t		
Stability (Static)				connected and					
Stability (Dynamic)		-/+ 5% at lo	oad changed f	rom 10% to 10	0% and vice	visa respective	ly		
Recovery Time			< 250	)ms to be in st	atic state				
Ripple Voltage			< 5% w	ithout battery	connected				
Nominal DC Current		From 15	Adc to 500Add	: (Higher rating	gs are availab	le on request)			
Adjustable Range		0 to 100	)% both rectifi	er current limi	t and battery	/ current limit			
Current Accuracy			+	/- 1.5% of set	point				
DC Overcurrent			110% cont	inuous of nom	inal DC curre	ent			
Characteristic		Constant	current / con	stant voltage a	ccording to	IU IEC 60478-1			
High Pot Test				2.5KV / 1m	n				
Megger Test				500Vdc					
MECHANICAL SPECIFIC	TION								
Degree of Protection	IP 20 ac	cording to IEC	60529 & 6014	44 Standard (C	ther IP rating	gs are available	e on request)		
Equipment Colour	RAL703	5 come with p	owder and an	ti-rust coating	(Other colou	ırs are available	e on request)		
Acoustic Noise Level			:	≤ 65 at 1m typ	ically				
Connection		Тс	p or Bottom B	Entry as per cu	stomer requi	irement			
ENVIRONMENTAL									
Type Of Cooling		Na	ture cool up to	o 100A / 220V	dc and forced	d cooling			
Operating Temperature			0 Degree	Celsius to 45 [	egree Celsiu	IS			
Storage Temperature			-20 Degree	e Celsius to 70	Degree Celsi	us			
Humidity				5% (Non Cond	-				
Installation Height		0 t		ating @ 1% pe	0,	e 1000m			
Safety				-2, Functionali					
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		

# **Brilliant Series Industrial DC Power Supply**

### **3P Power** One Stop Solution





Passion Profession Perfection

**3P** Power Pte Ltd

1 UBI View, #04-21 Focus One Singapore 408555 T +65 743 1006 & +65 6635 7632 F +65 6634 1129

- F +03 0034 1129
- E enquiry@3ppower.com
- W www.3ppower.com

### Offices

- Singapore
- Myanmar