3PPower

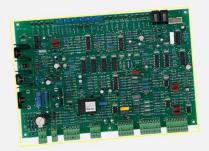
Passion Profession Perfection



PRODUCT CATALOGUE

Brilliant Series Industrial DC Power Supply

Brilliant Series Industrial DC Power Supply



Design and Development in Singapore

Our Universal Rectifier Control cards, Thyristors, Triggering Cards and Alarm Display Cards are designed, developed, and assembled locally in Singapore.

This assures that our products are in the highest quality control.

Input Three Phase 380/400/415VAC

Output Refer to catalogue

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.

DIVERSIFICATION

Carefully designed and engineered PCB cards, our DC UPS has the ability to eliminate harmful distortion from utility power and withstand all kinds of severe impacts from various loads. This DC UPS possesses the capability to support heavy duty equipment and production equipment.

ROBUST CABINET DESIGN

Considering the various environmental conditions, our cabinet is designed to fit all industries from marine sector to data center.

FLEXIBLE BATTERY CONFIGURATION

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

UNIQUE MAN-MACHINE INTERFACE

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

FRONT ACCESS

User access is made simple by ensuring the accessibility of the operational controls according to individual site's requirements. Electronic cards and power components are easily accessible from the front panel for further maintenance and/or replacements

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 Three Phase Input 24Vdc Output Technical Data

Model	TPDC24-10	TPDC24-20	TPDC24-40	TPDC24-50	TPDC24-75	TPDC24-100	TPDC24-150	
Output Capacity	24V/10A	24V/20A	24V/40A	24V/50A	24V/75A	24V/100A	24V/150A	
RECTIFIER INPUT								
Phase			;	Phase, 3W+0	ĵ			
Input PF			0.8 at nomi	nal input and f	float voltage			
Input Voltage		380V / 400V / 415V +/- 15%						
Input frequency		50Hz / 60Hz +/- 5%						
RECTIFIER DC OUTPUT								
Adjustable Range		From 80% to	135% of non	ninal voltage a	t +/- 15% of r	ectifier input		
Stability (Static)			+/- 1.5% @ +	/- 15% of rect	ifier AC input			
Stability (Dynamic)	-/+ 5% a	t load change	d from 0% to	100% and vice	visa @ +/- 15	5% of rectifier	AC input	
Recovery Time			< 250m	s to be in stat	ic state			
Ripple Voltage	< 5%	as standard ((0.1%, 1% & 2%	6 offered as or	otion) without	t battery conn	ected	
Nominal DC Current		From 10Ad	c to 500Adc (I	Higher ratings	are available	on request)		
Adjustable Range		0 to 100%	both rectifier	current limit	and battery co	urrent limit		
Current Accuracy			+/-	1.5% of set po	oint			
DC Overcurrent			110% continu	uous of nomin	al DC current			
Characteristic		Constant co	urrent / consta	ant voltage ac	cording to IU	IEC 60478-1		
High Pot Test				2.0KV / 1min				
Megger Test				500Vdc				
MECHANICAL SPECIFICATI	ON							
Human Machine Interface			t M2000 conti					
Traman Waterine Interrace			ard: 1024 Eve					
Alarm Communications			Modbus and I					
Degree of Protection						are available o		
Equipment Colour	RAL7035 c	ome with pov				are available o	on request)	
Acoustic Noise Level				at 1m away t				
Connection		Тор	or Bottom En	try as per cust	omer require	ment		
ENVIRONMENTAL								
Type Of Cooling		Natura	al cooling up t			ve 75A		
Operating Temperature				elsius to 55 De				
Storage Temperature				celsius to 70 D				
Humidity				6 (Non Conde				
Installation Height			L000m, derati					
Safety		l	EC 62040-1-2,	-	IEC 60146-1-	1		
Environment				RoHS				
PHYSICAL								
Approx. Gross Weight (KG)	80	90	110	120	150	180	210	
Cabinet Model		CUB06	512061			CUB0616061		
Dimensions (W*D*H) mm		600 * 60	00 * 1200		6	00 * 600 * 160	00	

Brilliant Series Three Phase Input 24Vdc Output Technical Data

Model	TPDC24-175	TPDC24-200	TPDC24-250	TPDC24-300	TPDC24-400	TPDC24-500			
Output Capacity	24V/175A	24V/200A	24V/250A	24V/300A	24V/400A	24V/500A			
RECTIFIER INPUT	,								
Phase			3 Phase	. 3W+G					
Input PF		0.8 at nominal input and float voltage							
Input Voltage			380V / 400V /		<u> </u>				
Input frequency		50Hz / 60Hz +/- 5%							
RECTIFIER DC OUTPUT	33.12 / 33.12 / 3.10								
Adjustable Range	F	From 80% to 135% of nominal voltage at +/- 15% of rectifier input							
Stability (Static)			1.5% @ +/- 15%						
Stability (Dynamic)	-/+ 5% at lo		m 0% to 100% a		•	er AC input			
Recovery Time	, 5/3 5/3	an energenis			,				
Ripple Voltage	< 5% as	standard (0.1%,			hout battery co	nnected			
Nominal DC Current					-				
Adjustable Range			, ,		• •				
Current Accuracy					•				
DC Overcurrent		110		•	rent				
Characteristic		Constant curren	t / constant volt	age according to	o IU IEC 60478-1				
High Pot Test			2.0KV	/ 1min					
Megger Test			500	Vdc					
MECHANICAL SPECIFICATION									
Human Machine Interface		Brilliant M2	000 controller w	ith 5 inch Touch	Screen Size				
Human Machine interrace		128MB Sta	andard, External	SD Memory Car	d Optional				
Alarm Communications		Mo	odbus RTU, Dry (Contact (C, NC,N	10)				
Degree of Protection	IP 20 accordi	ng to IEC 60529	& 60144 Standa	rd (Other IP rat	ings are availabl	e on request)			
Equipment Colour	RAL7035 com	ne with powder	and anti-rust co	ating (Other cold	ours are availabl	e on request)			
Acoustic Noise Level			≤ 65dB at 1m	away typically					
Connection		Top or Bo	ottom Entry as p	er customer req	uirement				
ENVIRONMENTAL									
Type Of Cooling			Forced	cooling					
Operating Temperature									
Storage Temperature		-20			lsius				
Humidity									
Installation Height									
Safety		IEC 6			6-1-1				
Environment			Ro	HS					
PHYSICAL									
Approx. Gross Weight (KG)	240	260	300	350	460	550			
Cabinet Model	CUB08	18061	CUB08	18081	CUB12	18082			
Dimensions (W*D*H) mm	800 * 60	0 * 1800	< 250ms to be in static state 1.% & 2% offered as option) without battery connected DOAdc (Higher ratings are available on request) Prectifier current limit and battery current limit +/- 1.5% of set point Continuous of nominal DC current / constant voltage according to IU IEC 60478-1 2.0KV / 1min 500Vdc DO controller with 5 inch Touch Screen Size Endard, External SD Memory Card Optional State of the Standard (Other IP ratings are available on requested and anti-rust coating (Other colours are available on requested at 1m away typically Stome Entry as per customer requirement Forced cooling Engree Celsius to 70 Degree Celsius < 95% (Non Condensing) , derating @ 1% per 100m above 1000m D40-1-2, Functionality IEC 60146-1-1 ROHS CUB0818081 CUB0818081 CUB1218082 800 * 800 * 1800 1200 * 800 * 1800 1200 * 800 * 1800						

Brilliant Series Three Phase Input 30Vdc Output Technical Data

Model	TPDC30-10	TPDC30-20	TPDC30-40	TPDC30-50	TPDC30-75	TPDC30-100	TPDC30-150		
Output Capacity	30V/10A	30V/20A	30V/40A	30V/50A	30V/75A	30V/100A	30V/150A		
RECTIFIER INPUT	30 1/10/1	30 1/201	30 7 40 1	30V/30A	307/73A	307/100/	30 V/ 130A		
Phase		3 Phase, 3W+G							
Input PF									
				nal input and f					
Input Voltage				400V / 415V -					
Input frequency		50Hz / 60Hz +/- 5%							
RECTIFIER DC OUTPUT									
Adjustable Range		From 80% to	135% of nom			ectifier input			
Stability (Static)				/- 15% of rect	•				
Stability (Dynamic)	-/+ 5% at	t load change				5% of rectifier	AC input		
Recovery Time				s to be in stat					
Ripple Voltage	< 5%			-	-	t battery conn	ected		
Nominal DC Current			c to 500Adc (I						
Adjustable Range		0 to 100%	both rectifier			urrent limit			
Current Accuracy				1.5% of set po					
DC Overcurrent				ous of nomin					
Characteristic		Constant cu	rrent / consta		cording to IU	IEC 60478-1			
High Pot Test				2.0KV / 1min					
Megger Test				500Vdc					
MECHANICAL SPECIFICATI	MECHANICAL SPECIFICATION								
Human Machine Interface			M2000 conti						
		128M	B Standard, E			otional			
Alarm Communications				J, Dry Contact					
Degree of Protection				•		are available o			
Equipment Colour	RAL7035 co	ome with pow				are available	on request)		
Acoustic Noise Level				at 1m away t					
Connection		Тор	or Bottom Ent	ry as per cust	omer require	ment			
ENVIRONMENTAL									
Type Of Cooling		Natural	cooling up to			ve 100A			
Operating Temperature				lsius to 55 De					
Storage Temperature			-20 Degree C	elsius to 70 D	egree Celsius				
Humidity				(Non Conder	<u> </u>				
Installation Height		0 to 1	.000m, derati	ng @ 1% per 1	LOOm above 1	.000m			
Safety		l	EC 62040-1-2,	Functionality	IEC 60146-1-	1			
Environment				RoHS					
PHYSICAL									
Approx. Gross Weight (KG)	85	95	120	135	160	190	230		
Cabinet Model		CUB06	512061			CUB0616061			
Dimensions (W*D*H) mm		600 * 60	0 * 1200		6	00 * 600 * 160	00		

Brilliant Series Three Phase Input 30Vdc Output Technical Data

Model	TPDC30-175	TPDC30-200	TPDC30-250	TPDC30-300	TPDC30-400	TPDC30-500			
Output Capacity	30V/175A	30V/200A	30V/250A	30V/300A	30V/400A	30V/500A			
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	F	rom 80% to 135	% of nominal vo	Itage at +/- 15%	of rectifier inpu	ıt			
Stability (Static)			1.5% @ +/- 15%		-				
Stability (Dynamic)	-/+ 5% at lo		m 0% to 100% a		•	er AC input			
Recovery Time	,		< 250ms to be						
Ripple Voltage	< 5% as	standard (0.1%)	, 1% & 2% offere	d as option) wit	hout battery co	nnected			
Nominal DC Current			500Adc (Higher		•				
Adjustable Range		0 to 100% both	rectifier curren	t limit and batte	ry current limit				
Current Accuracy			+/- 1.5% o	f set point					
DC Overcurrent		110	% continuous of	nominal DC cur	rent				
Characteristic		Constant curren	t / constant volt	age according to	o IU IEC 60478-1				
High Pot Test			2.0KV	/ 1min					
Megger Test			500	Vdc					
MECHANICAL SPECIFICATION									
Human Machine Interface		Brilliant M2	000 controller w	ith 5 inch Touch	Screen Size				
Tidiliali Macilile lilleriace		128MB Sta	andard, External	SD Memory Car	d Optional				
Alarm Communications		Me	odbus RTU, Dry (Contact (C, NC,N	10)				
Degree of Protection	IP 20 accordi	ng to IEC 60529	& 60144 Standa	rd (Other IP rat	ings are availabl	e on request)			
Equipment Colour	RAL7035 con	ne with powder	and anti-rust co	ating (Other cold	ours are availabl	e on request)			
Acoustic Noise Level			≤ 65dB at 1m	away typically					
Connection		Top or Bo	ottom Entry as p	er customer req	uirement				
ENVIRONMENTAL									
Type Of Cooling			Forced	cooling					
Operating Temperature			Degree Celsius to						
Storage Temperature		-20	Degree Celsius t		sius				
Humidity			< 95% (Non						
Installation Height			m, derating @ 1						
Safety		IEC 6	2040-1-2, Functi		6-1-1				
Environment			Ro	HS					
PHYSICAL									
Approx. Gross Weight (KG)	255	280	320	360	470	570			
Cabinet Model	CUB08	18061	CUB08	18081	CUB12	218082			
Dimensions (W*D*H) mm	800 * 60	0 * 1800	800 * 80	0 * 1800	1200 * 80	00 * 1800			

Brilliant Series Three Phase Input 48Vdc Output Technical Data

Model	TPDC48-10	TPDC48-20	TPDC48-40	TPDC48-50	TPDC48-75	TPDC48-100	TPDC48-150	
Output Capacity	48V/10A	48V/20A	48V/40A	48V/50A	48V/75A	48V/100A	48V/150A	
RECTIFIER INPUT			ı					
Phase			3	Phase, 3W+0	ì			
Input PF		0.8 at nominal input and float voltage						
Input Voltage			380V /	400V / 415V -	+/- 15%			
Input frequency			50	Hz / 60Hz +/-	5%			
RECTIFIER DC OUTPUT		, , , , , , , , , , , , , , , , , , , ,						
Adjustable Range		From 80% to	135% of nom	ninal voltage a	t +/- 15% of r	ectifier input		
Stability (Static)			+/- 1.5% @ +	/- 15% of rect	ifier AC input			
Stability (Dynamic)	-/+ 5% at	load change	d from 0% to :	L00% and vice	visa @ +/- 15	5% of rectifier	AC input	
Recovery Time			< 250m	s to be in stat	ic state			
Ripple Voltage	< 5%	as standard (0	0.1%, 1% & 2%	offered as or	otion) withou	t battery conn	ected	
Nominal DC Current		From 10Ad	c to 500Adc (F	ligher ratings	are available	on request)		
Adjustable Range		0 to 100%	both rectifier	current limit a	and battery co	urrent limit		
Current Accuracy			+/-	1.5% of set po	oint			
DC Overcurrent			110% continu	ous of nomin	al DC current			
Characteristic		Constant cu	urrent / consta	ant voltage ac	cording to IU	IEC 60478-1		
High Pot Test				2.0KV / 1min				
Megger Test				500Vdc				
MECHANICAL SPECIFICATI	ON							
Human Machine Interface			t M2000 contr					
Traman Washine Interrace		128M	B Standard, E			otional		
Alarm Communications				J, Dry Contac				
Degree of Protection						are available o		
Equipment Colour	RAL7035 co	ome with pow				are available	on request)	
Acoustic Noise Level				at 1m away t				
Connection		Тор	or Bottom Ent	ry as per cust	omer require	ment		
ENVIRONMENTAL								
Type Of Cooling		Natura	al cooling up t			ve 75A		
Operating Temperature				lsius to 55 De				
Storage Temperature				elsius to 70 D				
Humidity		0+- 1		(Non Conde	<u> </u>	000		
Installation Height			1000m, deration					
Safety		l	EC 62040-1-2,	•	TEC 60146-1-	.T		
Environment				RoHS				
PHYSICAL Approx Gross Weight								
Approx. Gross Weight (KG)	100	115	135	150	200	230	290	
Cabinet Model		CUB06	512061			CUB0616061		
Dimensions (W*D*H) mm		600 * 60	0 * 1200		60	00 * 600 * 160	00	

Brilliant Series Three Phase Input 48Vdc Output Technical Data

Model	TPDC48-175	TPDC48-200	TPDC48-250	TPDC48-300	TPDC48-400	TPDC48-500			
Output Capacity	48V/175A	48V/200A	48V/250A	48V/300A	48V/400A	48V/500A			
RECTIFIER INPUT									
Phase			3 Phase	, 3W+G					
Input PF		0.8	at nominal inpu	it and float volta	age				
Input Voltage			380V / 400V /	415V +/- 15%					
Input frequency			50Hz / 60	Hz +/- 5%					
RECTIFIER DC OUTPUT									
Adjustable Range	F	rom 80% to 135	% of nominal vo	ltage at +/- 15%	of rectifier inpu	ıt			
Stability (Static)		+/- :	1.5% @ +/- 15%	of rectifier AC ir	nput				
Stability (Dynamic)	-/+ 5% at lo	oad changed fro	m 0% to 100% a	nd vice visa @ +	/- 15% of rectifi	er AC input			
Recovery Time			< 250ms to be	in static state					
Ripple Voltage	< 5% as	standard (0.1%,	1% & 2% offere	d as option) wit	hout battery co	nnected			
Nominal DC Current		From 10Adc to !	500Adc (Higher i	ratings are availa	able on request)				
Adjustable Range		0 to 100% both	rectifier curren	t limit and batte	ry current limit				
Current Accuracy			+/- 1.5% o	f set point					
DC Overcurrent		110	% continuous of	nominal DC cur	rent				
Characteristic		Constant curren	t / constant volt	age according to	o IU IEC 60478-1				
High Pot Test			2.0KV	/ 1min					
Megger Test			500	Vdc					
MECHANICAL SPECIFICATI	ON								
Human Machine Interface		Brilliant M2	000 controller w	ith 5 inch Touch	Screen Size				
Traman Wachine Interface		128MB Sta	ındard, External	SD Memory Car	d Optional				
Alarm Communications		Mo	odbus RTU, Dry (Contact (C, NC,N	10)				
Degree of Protection	IP 20 accordi	ng to IEC 60529	& 60144 Standa	rd (Other IP rati	ings are availabl	e on request)			
Equipment Colour	RAL7035 com	ne with powder	and anti-rust coa	ating (Other cold	ours are availabl	e on request)			
Acoustic Noise Level			≤ 65dB at 1m	away typically					
Connection		Top or Bo	ottom Entry as p	er customer req	uirement				
ENVIRONMENTAL									
Type Of Cooling			Forced	cooling					
Operating Temperature		0 0	Degree Celsius to	55 Degree Cels	ius				
Storage Temperature		-20	Degree Celsius t		sius				
Humidity			< 95% (Non						
Installation Height		0 to 1000i	m, derating @ 1	% per 100m abo	ve 1000m				
Safety		IEC 6	2040-1-2, Functi	onality IEC 6014	6-1-1				
Environment			Ro	HS					
PHYSICAL									
Approx. Gross Weight (KG)	260	280	350	400	480	580			
Cabinet Model	CUB08	18061	CUB08	18081	CUB12	18082			
Dimensions (W*D*H) mm	800 * 60	0 * 1800	800 * 80	0 * 1800	1200 * 80	00 * 1800			

Brilliant Series Three Phase Input 110Vdc Output Technical Data

Model	TPDC110-10	TPDC110-25	TPDC110-50	TPDC110-75	TPDC110-100	TPDC110-150		
Output Capacity	110V/10A	110V/25A	110V/50A	110V/75A	110V/100A	110V/150A		
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	F	rom 80% to 135	% of nominal vo	ltage at +/- 15%	of rectifier inpu	t		
Stability (Static)		+/-	1.5% @ +/- 15%	of rectifier AC in	nput			
Stability (Dynamic)	-/+ 5% at l	oad changed fro	m 0% to 100% a	nd vice visa @ +	/- 15% of rectifie	er AC input		
Recovery Time			< 250ms to be	in static state				
Ripple Voltage	< 5% as	standard (0.1%	, 1% & 2% offere	d as option) wit	hout battery cor	nected		
Nominal DC Current		From 10Adc to	500Adc (Higher i	ratings are availa	able on request)			
Adjustable Range		0 to 100% both	rectifier curren	t limit and batte	ry current limit			
Current Accuracy			+/- 1.5% o	f set point				
DC Overcurrent		110	% continuous of	nominal DC cur	rent			
Characteristic		Constant currer	nt / constant volt	age according to	o IU IEC 60478-1			
High Pot Test			2.0KV	/ 1min				
Megger Test			500	Vdc				
MECHANICAL SPECIFICATION	ON							
Human Machine Interface			000 controller w					
			andard, External	· · · · · · · · · · · · · · · · · · ·	•			
Alarm Communications			odbus RTU, Dry (•			
Degree of Protection			& 60144 Standa	•				
Equipment Colour	RAL7035 con	ne with powder	and anti-rust coa		ours are available	e on request)		
Acoustic Noise Level			≤ 65dB at 1m					
Connection		Top or Bo	ottom Entry as p	er customer req	uirement			
ENVIRONMENTAL True Of Carling		Nistraalisa	-li)				
Type Of Cooling			oling up to 50A 8					
Operating Temperature			Degree Celsius to					
Storage Temperature Humidity		-20	Degree Celsius t		Sius			
Installation Height		0 to 1000	m, derating @ 1		we 1000m			
Safety			2040-1-2, Functi	•				
Environment		ILC 0		HS	10-1-1			
PHYSICAL			NO					
Approx. Gross Weight	100	150	270	400	425	490		
(KG)	100		270	700		730		
Cabinet Model		CUB0612061			CUB0616061			
Dimensions (W*D*H) mm	(500 * 600 * 120)		600 * 600 * 1600)		

Brilliant Series Three Phase Input 110Vdc Output Technical Data

Model	TPDC110-175	TPDC110-200	TPDC110-250	TPDC110-300	TPDC110-400	TPDC110-500		
Output Capacity	110V/175A	110V/200A	110V/250A	110V/300A	110V/400A	110V/500A		
RECTIFIER INPUT								
Phase		3 Phase, 3W+G						
Input PF		0.8	Bat nominal inpu	it and float volta	age			
Input Voltage			380V / 400V /	415V +/- 15%				
Input frequency			50Hz / 60	Hz +/- 5%				
RECTIFIER DC OUTPUT								
Adjustable Range	F	rom 80% to 135	% of nominal vo	ltage at +/- 15%	of rectifier inpu	ıt		
Stability (Static)		+/-	1.5% @ +/- 15%	of rectifier AC ir	nput			
Stability (Dynamic)	-/+ 5% at lo	oad changed fro	m 0% to 100% a	nd vice visa @ +	/- 15% of rectific	er AC input		
Recovery Time			< 250ms to be	in static state				
Ripple Voltage	< 5% as	standard (0.1%)	, 1% & 2% offere	d as option) wit	hout battery co	nnected		
Nominal DC Current		From 10Adc to	500Adc (Higher i	atings are availa	able on request)			
Adjustable Range		0 to 100% both	rectifier curren	t limit and batte	ry current limit			
Current Accuracy			+/- 1.5% o	f set point				
DC Overcurrent		110	% continuous of	nominal DC cur	rent			
Characteristic		Constant curren	it / constant volt	age according to	o IU IEC 60478-1			
High Pot Test			2.0KV	/ 1min				
Megger Test			500	Vdc				
MECHANICAL SPECIFICATION	MECHANICAL SPECIFICATION							
Human Machine Interface			000 controller w					
			andard, External	·	•			
Alarm Communications			odbus RTU, Dry (•			
Degree of Protection			& 60144 Standa					
Equipment Colour	RAL7035 com	ne with powder	and anti-rust coa		ours are availabl	e on request)		
Acoustic Noise Level			≤ 65dB at 1m					
Connection		Top or Bo	ottom Entry as p	er customer req	uirement			
ENVIRONMENTAL True Of Cardina			F					
Type Of Cooling		0.5	Forced		·			
Operating Temperature Storage Temperature			Degree Celsius to					
Humidity		-20	Degree Celsius t		Sius			
Installation Height		0 to 1000	m, derating @ 1		we 1000m			
Safety			2040-1-2, Functi	•				
Environment		ILC 0	Ro	•	-0-1-1			
PHYSICAL			T(O					
Approx. Gross Weight								
(KG)	550	630	720	900	970	1050		
Cabinet Model	CUB08	18081	CUB12	18082	CUB16	518082		
Dimensions (W*D*H) mm	800 * 80	0 * 1800	1200 * 80	00 * 1800	1600 * 80	00 * 1800		

Brilliant Series Three Phase Input 220Vdc Output Technical Data

Model	TPDC220-10	TPDC220-25	TPDC220-50	TPDC220-75	TPDC220-100	TPDC220-150			
Output Capacity	220V/10A	220V/25A	220V/50A	220V/75A	220V/100A	220V/150A			
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 / 60	Hz +/- 5%					
RECTIFIER DC OUTPUT									
Adjustable Range	F	rom 80% to 135	% of nominal vo	ltage at +/- 15%	of rectifier inpu	ıt			
Stability (Static)		+/-	1.5% @ +/- 15%	of rectifier AC in	nput				
Stability (Dynamic)	-/+ 5% at lo	oad changed fro	m 0% to 100% a	nd vice visa @ +	-/- 15% of rectific	er AC input			
Recovery Time			< 250ms to be	in static state					
Ripple Voltage	< 5% as	standard (0.1%,	, 1% & 2% offere	d as option) wit	hout battery co	nnected			
Nominal DC Current		From 10Adc to	500Adc (Higher	atings are avail	able on request)				
Adjustable Range		0 to 100% both	rectifier curren	t limit and batte	ery current limit				
Current Accuracy			+/- 1.5% o	f set point					
DC Overcurrent		110	% continuous of	nominal DC cur	rent				
Characteristic		Constant curren	t / constant volt	age according t	o IU IEC 60478-1				
High Pot Test			2.0KV	/ 1min					
Megger Test			500	Vdc					
MECHANICAL SPECIFICATION	ON								
Human Machine Interface			000 controller w						
Traman Wachine Interface		128MB Sta	andard, External	SD Memory Car	rd Optional				
Alarm Communications			odbus RTU, Dry (· · · · · · · · · · · · · · · · · · ·					
Degree of Protection				•	ings are availabl				
Equipment Colour	RAL7035 com	ne with powder			ours are availabl	e on request)			
Acoustic Noise Level			≤ 65dB at 1m						
Connection		Top or Bo	ottom Entry as p	er customer req	quirement				
ENVIRONMENTAL									
Type Of Cooling			oling up to 50A 8						
Operating Temperature			Degree Celsius to						
Storage Temperature		-20	Degree Celsius t		lsius				
Humidity			< 95% (Non						
Installation Height			m, derating @ 1	•					
Safety		IEC 6.	2040-1-2, Functi	·	1 6-1-1				
Environment			Ro	H2					
PHYSICAL									
Approx. Gross Weight (KG)	150	180	290	350	440	500			
Cabinet Model	CUB06	12061	CUB06	16061	CUB08	318061			
Dimensions (W*D*H) mm	600 * 60	0 * 1200	600 * 60	0 * 1600	800 * 60	0 * 1600			

Brilliant Series Three Phase Input 220Vdc Output Technical Data

Model	TPDC220-175	TPDC220-200	TPDC220-250	TPDC220-300	TPDC220-400	TPDC220-500			
Output Capacity	220V/175A	220V/200A	220V/250A	220V/300A	220V/400A	220V/500A			
RECTIFIER INPUT	,								
Phase		3 Phase, 3W+G							
Input PF		0.8	at nominal inpu		age				
Input Voltage			380V / 400V /						
Input frequency			50Hz / 60	•					
RECTIFIER DC OUTPUT		30112 30112 1 370							
Adjustable Range	F	rom 80% to 135	% of nominal vo	Itage at +/- 15%	of rectifier inpu	ıt			
Stability (Static)			1.5% @ +/- 15%						
Stability (Dynamic)	-/+ 5% at lo		m 0% to 100% a		•	er AC input			
Recovery Time	, 5/3 5/3		< 250ms to be		,				
Ripple Voltage	< 5% as	standard (0.1%,	. 1% & 2% offere		hout battery co	nnected			
Nominal DC Current			500Adc (Higher i		•				
Adjustable Range			rectifier curren						
Current Accuracy				f set point	•				
DC Overcurrent		110	% continuous of	·	rent				
Characteristic		Constant curren	t / constant volt	age according to	o IU IEC 60478-1				
High Pot Test			2.0KV	/ 1min					
Megger Test			500	Vdc					
MECHANICAL SPECIFICATION									
Lluman Machine Intentace	Brilliant M2000 controller with 5 inch Touch Screen Size								
Human Machine Interface		128MB Sta	andard, External	SD Memory Car	d Optional				
Alarm Communications		Mo	odbus RTU, Dry (Contact (C, NC,N	IO)				
Degree of Protection	IP 20 accordi	ng to IEC 60529	& 60144 Standa	rd (Other IP rat	ings are availabl	e on request)			
Equipment Colour	RAL7035 com	ne with powder	and anti-rust coa	ating (Other cold	ours are availabl	e on request)			
Acoustic Noise Level			≤ 65dB at 1m	away typically					
Connection		Top or Bo	ottom Entry as p	er customer req	uirement				
ENVIRONMENTAL									
Type Of Cooling			Forced	cooling					
Operating Temperature		0 0	Degree Celsius to	55 Degree Cels	ius				
Storage Temperature		-20	Degree Celsius t		sius				
Humidity			< 95% (Non						
Installation Height			m, derating @ 1	•					
Safety		IEC 6	2040-1-2, Functi	onality IEC 6014	6-1-1				
Environment			Ro	HS					
PHYSICAL									
Approx. Gross Weight (KG)	560	640	750	930	1035	1150			
Cabinet Model	CUB08	18081	CUB12	18082	CUB16	518082			
Dimensions (W*D*H) mm	800 * 80	0 * 1800	1200 * 80	00 * 1800	1600 * 80	00 * 1800			

Brilliant Series Industrial DC Power Supply

3P Power One Stop Solution





Passion Profession Perfection

3P POWER PTE. LTD.

1 Genting Link, #04-02, Perfect One Building, Singapore 349518

+65 6743 1006 & +65 6019 0772

enquiry@3ppower.com

W www.3ppower.com