

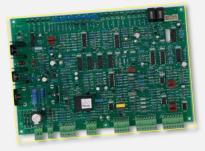
Passion Profession Perfection



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.

InputThree Phase 380/400/415VACOutputRefer 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

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			:	3 Phase, 3W+0	5		
Input PF			0.8 at nomi	nal input and f	float voltage		
Input Voltage			380V /	400V / 415V ·	+/- 15%		
Input frequency			50	Hz / 60Hz +/-	5%		
RECTIFIER DC OUTPUT							
Adjustable Range		From 80% to 135% of nominal voltage at +/- 15% of rectifier 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	is to be in stat	ic state		
Ripple Voltage	< 5%	as standard ((0.1%, 1% & 2%	6 offered as op	otion) without	t battery conn	ected
Nominal DC Current		From 10Ad	c to 500Adc (I	ligher ratings	are available	on request)	
Adjustable Range		0 to 100%	both rectifier	current limit a	and battery cu	urrent limit	
Current Accuracy			+/-	1.5% of set po	oint		
DC Overcurrent			110% continu	uous 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	MECHANICAL SPECIFICATION						
Human Machine Interface		Brilliant	t M2000 conti	oller with 5 ir	ich Touch Scr	een Size	
			ard: 1024 Eve				
Alarm Communications			Modbus and I				
Degree of Protection						are available o	
Equipment Colour	RAL7035 c	ome with pow				are available o	on request)
Acoustic Noise Level				at 1m away t			
Connection		Тор	or Bottom En	ry 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				elsius to 70 D	-		
Humidity				6 (Non Condei			
Installation Height			LOOOm, derati				
Safety		l	EC 62040-1-2,	-	1EC 60146-1-	1	
Environment				RoHS			
PHYSICAL							
Approx. Gross Weight (KG)	80	90	110	120	150	180	210
Cabinet Model		CUBO	512061			CUB0616061	
Dimensions (W*D*H) mm	600 * 600 * 1200 600 * 600 * 1600						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					I		
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 rectified	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	ratings 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							
Human Machine Interface			000 controller w				
		128MB Sta	indard, External	SD Memory Car	d Optional		
Alarm Communications			odbus RTU, Dry				
Degree of Protection		-			ings are available		
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	<mark>er customer req</mark>	uirement		
ENVIRONMENTAL							
Type Of Cooling			Forced	-			
Operating Temperature			Degree Celsius to	_			
Storage Temperature		-20	Degree Celsius t		Isius		
Humidity			< 95% (Non				
Installation Height			m, derating @ 1	•			
Safety		IEC 6	2040-1-2, Functi	-	ю-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	800 * 80	0 * 1800	1200 * 80	00 * 1800	

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			1			1		
Phase			:	Phase, 3W+0	3			
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	0 135% 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	t load change	d from 0% to :	100% and vice	visa @ +/- 15	5% of rectifier	AC input	
Recovery Time			< 250m	is to be in stat	ic state			
Ripple Voltage	< 5%	as standard (().1%, 1% & 2%	6 offered as op	otion) without	t battery conn	ected	
Nominal DC Current		From 10Ad	c to 500Adc (I	ligher ratings	are available	on request)		
Adjustable Range		0 to 100%	both rectifier	current limit a	and battery cu	urrent limit		
Current Accuracy			+/-	1.5% of set po	oint			
DC Overcurrent			110% continu	uous 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	SPECIFICATION							
Human Machine Interface		Brilliant	t M2000 conti	oller with 5 ir	hch Touch Scr	een Size		
		128M	B Standard, E	kternal SD Me	mory Card Op	otional		
Alarm Communications				U, 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		Natural	cooling up to			ve 100A		
Operating Temperature				elsius to 55 De	-			
Storage Temperature			-	elsius to 70 D	-			
Humidity				6 (Non Conde				
Installation Height			000m, derati					
Safety			EC 62040-1-2,		IEC 60146-1-	1		
Environment				RoHS				
PHYSICAL								
Approx. Gross Weight (KG)	85	95	120	135	160	190	230	
Cabinet Model		CUBO	512061			CUB0616061		
Dimensions (W*D*H) mm		600 * 60	0 * 1200		6	00 * 600 * 16	00	

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 / 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%	-	-			
Stability (Dynamic)	-/+ 5% at lo				/- 15% of rectifi	er AC input		
Recovery Time				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	ratings 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	it / constant volt	age according t	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	n Screen Size			
		128MB Sta	andard, External	SD Memory Car	rd Optional			
Alarm Communications		M	odbus RTU, Dry	Contact (C, NC,N	10)			
Degree of Protection		-			ings are availabl			
Equipment Colour	RAL7035 con	ne with powder	and anti-rust co	ating (Other col	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	luirement			
ENVIRONMENTAL								
Type Of Cooling				cooling				
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		46-1-1			
Environment			Ro	HS				
PHYSICAL								
Approx. Gross Weight (KG)	255	280	320	360	470	570		
Cabinet Model	CUB08	318061	CUB08	18081	CUB12	18082		
Dimensions (W*D*H) mm	800 * 60	0 * 1800	800 * 80	0 * 1800	1200 * 80	0 * 1800		

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			1			1		
Phase			3	Phase, 3W+0	3			
Input PF			0.8 at nomi	nal input and f	float voltage			
Input Voltage		380V / 400V / 415V +/- 15%						
Input frequency			50	Hz / 60Hz +/-	5%			
RECTIFIER DC OUTPUT				, ,				
Adjustable Range		From 80% to 135% of nominal voltage at +/- 15% of rectifier input						
Stability (Static)				/- 15% of rect		-		
Stability (Dynamic)	-/+ 5% at	t load change			-	5% of rectifier	AC input	
Recovery Time			< 250m	s to be in stat	ic state			
Ripple Voltage	< 5%	as standard (0).1%, 1% & 2%	offered as op	otion) without	t battery conn	ected	
Nominal DC Current		From 10Ad	c to 500Adc (I	ligher ratings	are available	on request)		
Adjustable Range		0 to 100%	both rectifier	current limit a	and battery c	urrent limit		
Current Accuracy			+/-	1.5% of set po	oint			
DC Overcurrent			110% continu	uous 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	MECHANICAL SPECIFICATION							
Human Machine Interface		Brilliant	M2000 contr	oller with 5 in	hch Touch Scr	een Size		
		128M	B Standard, E	cternal SD Me	mory Card Op	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				6 (Non Condei				
Installation Height			.000m, derati					
Safety		I	EC 62040-1-2,	-	/ IEC 60146-1-	1		
Environment				RoHS				
PHYSICAL								
Approx. Gross Weight (KG)	100	115	135	150	200	230	290	
Cabinet Model		CUBO	512061			CUB0616061		
Dimensions (W*D*H) mm		600 * 600 * 1200 600 * 600 * 1600						

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	Bat nominal inpu	ut and float volta	age			
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	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 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	it / constant volt	age according t	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			
			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	<mark>er customer req</mark>	uirement			
ENVIRONMENTAL								
Type Of Cooling			Forced	_				
Operating Temperature			Degree Celsius to	_				
Storage Temperature		-20	Degree Celsius t	-	lsius			
Humidity			< 95% (Non	0,				
Installation Height			m, derating @ 1	-				
Safety		IEC 6	2040-1-2, Functi	-	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		

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	3 at nominal inpu		age		
Input Voltage			-	415V +/- 15%	-		
Input frequency		50Hz / 60Hz +/- 5%					
RECTIFIER DC OUTPUT							
Adjustable Range	F	rom 80% to 135	5% of nominal vo	ltage at +/- 15%	of rectifier inpu	t	
Stability (Static)			1.5% @ +/- 15%		•		
Stability (Dynamic)	-/+ 5% at l		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 cor	inected	
Nominal DC Current			500Adc (Higher)				
Adjustable Range			n rectifier curren	-			
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							
Human Machine Interface		Brilliant M2	000 controller w	ith 5 inch Touch	Screen Size		
		128MB Sta	andard, External	SD Memory Car	d Optional		
Alarm Communications		Μ	odbus RTU, Dry (Contact (C, NC,N	10)		
Degree of Protection	IP 20 accordi	ing to IEC 60529	& 60144 Standa	rd (Other IP rati	ings are available	e on request)	
Equipment Colour	RAL7035 con	ne with powder	and anti-rust coa	ating (Other cold	ours are available	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		Natural co	oling up to 50A &	& forced cooling	above 50A		
Operating Temperature		0 [Degree Celsius to	55 Degree Cels	ius		
Storage Temperature		-20	Degree Celsius t		sius		
Humidity			< 95% (Non	0,			
Installation Height			m, derating @ 1	•			
Safety		IEC 6	2040-1-2, Functi	-	6-1-1		
Environment			Ro	HS			
PHYSICAL							
Approx. Gross Weight (KG)	100	150	270	400	425	490	
Cabinet Model		CUB0612061			CUB0616061		
Dimensions (W*D*H) mm		<u>600 * 600 * 1200</u> <u>600 * 600 * 1600</u>					

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 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	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 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 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 SPECIFICATION							
Human Machine Interface			000 controller w				
			andard, External				
Alarm Communications			odbus RTU, Dry (• • •	•		
Degree of Protection		-	& 60144 Standa		-		
Equipment Colour	RAL/035 con	he with powder	and anti-rust coa		ours are availabl	e on request)	
Acoustic Noise Level		T	≤ 65dB at 1m				
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		iuc		
Storage Temperature			Degree Celsius to	_			
Humidity		-20	< 95% (Non		5105		
Installation Height		0 to 1000	m, derating @ 1		ve 1000m		
Safety			2040-1-2, Functi	-			
Environment			Ro	-			
PHYSICAL							
Approx. Gross Weight	550	622	720	000	070	4050	
(KG)	550	630	720	900	970	1050	
Cabinet Model	CUB08	18081	CUB12	18082	CUB16	18082	
Dimensions (W*D*H) mm	800 * 80	0 * 1800	1200 * 80	0 * 1800	1600 * 80	00 * 1800	

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 / 60Hz +/- 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%	_	-		
Stability (Dynamic)	-/+ 5% at lo				/- 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	ratings 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							
Human Machine Interface		Brilliant M2	000 controller w	ith 5 inch Touch	n Screen Size		
		128MB Sta	indard, 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	luirement		
ENVIRONMENTAL							
Type Of Cooling			oling up to 50A 8				
Operating Temperature			Degree Celsius to	_			
Storage Temperature		-20	Degree Celsius t		lsius		
Humidity			< 95% (Non	0,			
Installation Height			m, derating @ 1	•			
Safety		IEC 6	2040-1-2, Functi		46-1-1		
Environment			Ro	HS			
PHYSICAL							
Approx. Gross Weight (KG)	150	180	290	350	440	500	
Cabinet Model	CUBOE	12061	CUB06	16061	CUBO8	18061	
Dimensions (W*D*H) mm	600 * 60	0 * 1200	00 600 * 600 * 1600 800 * 600 * 1600				

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					1				
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	ıt			
Stability (Static)			1.5% @ +/- 15%	_	-				
Stability (Dynamic)	-/+ 5% at lo				/- 15% of rectifi	er AC input			
Recovery Time		0	< 250ms to be						
Ripple Voltage	< 5% as	standard (0.1%,	1% & 2% offere	d as option) wit	hout battery co	nnected			
Nominal DC Current					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									
Human Machine Interface		Brilliant M2	000 controller w	ith 5 inch Touch	n Screen Size				
		128MB Sta	indard, External	SD Memory Car	d Optional				
Alarm Communications		M	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 coa	ating (Other col	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	-					
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	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	18082			
Dimensions (W*D*H) mm	800 * 80	800 * 800 * 1800 1200 * 800 * 1800 1600 * 800 * 1800							

Model	TPDC400-10	TPDC400-25	TPDC400-50	TPDC400-75	TPDC400-100	TPDC400-150	
Output Capacity	400V/10A	400V/25A	400V/50A	400V/75A	400V/100A	400V/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				
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%	_	-		
Stability (Dynamic)	-/+ 5% at lo				/- 15% of rectifi	er AC input	
Recovery Time		Ū	< 250ms to be			·	
Ripple Voltage	< 5% as	standard (0.1%)	. 1% & 2% offere	d as option) wit	hout battery co	nnected	
Nominal DC Current					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							
Human Machine Interface		Brilliant M2	000 controller w	ith 5 inch Touch	n Screen Size		
		128MB Sta	andard, External	SD Memory Car	rd Optional		
Alarm Communications		M	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 coa	ating (Other col	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	luirement		
ENVIRONMENTAL							
Type Of Cooling			oling up to 50A 8				
Operating Temperature		0 [Degree Celsius to	55 Degree Cels	sius		
Storage Temperature		-20	Degree Celsius t		lsius		
Humidity			< 95% (Non	0,			
Installation Height			m, derating @ 1	•			
Safety		IEC 6	2040-1-2, Functi		46-1-1		
Environment			Ro	HS			
PHYSICAL					1		
Approx. Gross Weight (KG)	180	220	330	380	460	550	
Cabinet Model	CUB06	512061	CUB06	16061	CUB08	318061	
Dimensions (W*D*H) mm	600 * 60	0 * 1200	600 * 600 * 1600 800 * 600 * 1600				

3P Power One Stop Solution





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