3PPower

Passion Profession Perfection



PRODUCT CATALOGUE

Brilliant Series Industrial DC Power Supply

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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	TPC24-10	TPC24-20	TPC24-40	TPC24-50	TPC24-75	TPC24-100	TPC24-150
Output Capacity	24V/10A	24V/20A	24V/40A	24V/50A	24V/75A	24V/100A	24V/150A
RECTIFIER INPUT	247/10/	24V/20A	247/40/	24V/30A	24V/73A	247/100/	247/130/
Phase				3 Phase, 3W+G	•		
Input PF				nal input and f			
Input Voltage				400V / 415V +			
Input frequency				Hz / 60Hz +/- !	<u> </u>		
RECTIFIER DC OUTPUT			30	112 / 00112 1/ .	3 70		
Adjustable Range		From 80% to	o 135% of non	ninal voltage a	t +/- 15% of re	ctifier innut	
Stability (Static)		1101110070		·/- 15% of recti		ctifici iripat	
Stability (Dynamic)	-/+ 5% a	nt load change	-	-	•	% of rectifier A	Cinnut
Recovery Time	7 1 370 0	it load change		ns to be in stat		o or rectifier A	Сприс
Ripple Voltage	< 5%	as standard ((battery connec	rted
Nominal DC Current	1370	<u> </u>	·	Higher ratings	·	<u> </u>	.tcu
Adjustable Range		0 to 100%		current limit a		rrent ilmit	
Current Accuracy				1.5% of set pour			
DC Overcurrent		Camatanta				FC C0470 1	
Characteristic		Constant c	urrent / const	ant voltage acc	cording to 10 II	EC 60478-1	
High Pot Test				2.0KV / 1min			
Megger Test	TION!			500Vdc			
MECHANICAL SPECIFICA				,			
Degree of Protection						re available on	
Equipment Colour	RAL7035 d	come with pov				re available on	request)
Acoustic Noise Level				at 1m away ty	· · · · · · · · · · · · · · · · · · ·		
Connection		Тор	or Bottom En	try as per custo	omer requiren	nent	
ENVIRONMENTAL							
Type Of Cooling		Natur	al cooling up t	o 75A & force	d cooling abov	e 75A	
Operating			0 Degree Co	elsius to 55 De	gree Celsius		
Temperature Storage Temperature			-20 Degree (Celsius to 70 De	agrae Calsius		
Humidity				6 (Non Conder			
Installation Height		O to		ng @ 1% per 1		100m	
				, Functionality			
Safety Environment			IEC 02040-1-2	RoHS	IEC 00140-1-1		
PHYSICAL				кипз			
Approx. Gross Weight (KG)	80	90	110	120	150	180	210
Cabinet Model		CUB06	512061			CUB0616061	
Dimension (W * D * H)mm		600 * 60	0 * 1200		60	00 * 600 * 160	0

Brilliant Series Three Phase Input 24Vdc Output Technical Data

Model	TPC24-175	TPC24-200	TPC24-250	TPC24-300	TPC24-400	TPC24-500		
Output Capacity	24V/175A	24V/200A	24V/250A	24V/300A	24V/400A	24V/500A		
RECTIFIER INPUT								
Phase			3 Phase	•				
Input PF		0.8	3 at nominal inpu		ge			
Input Voltage				415V +/- 15%				
Input frequency			50Hz / 60	Hz +/- 5%				
RECTIFIER DC OUTPUT								
Adjustable Range					of rectifier input	:		
Stability (Static)			1.5% @ +/- 15%		<u>- </u>			
Stability (Dynamic)	-/+ 5% at l	oad changed fro	m 0% to 100% a	nd vice visa @ +/	- 15% of rectifier	AC input		
Recovery Time			< 250ms to be	in static state				
Ripple Voltage	< 5% as	s standard (0.1%,	, 1% & 2% offere	d as option) with	nout battery con	nected		
Nominal DC Current		From 10Adc to	500Adc (Higher	ratings are availa	able on request)			
Adjustable Range		0 to 100% botl	n rectifier curren	t limit and batte	ry current limit			
Current Accuracy			+/- 1.5% o	f set point				
DC Overcurrent		110	% continuous of	nominal DC curr	rent			
Characteristic		Constant currer	nt / constant volt	age according to	IU IEC 60478-1			
High Pot Test			2.0KV	/ 1min				
Megger Test			500	Vdc				
MECHANICAL SPECIFICA	TION							
Degree of Protection	IP 20 accord	ing to IEC 60529	& 60144 Standa	rd (Other IP rati	ngs are available	on request)		
Equipment Colour	RAL7035 cor	me with powder	and anti-rust coa	ating (Other colo	urs are available	on request)		
Acoustic Noise Level			≤ 65dB at 1m	away typically				
Connection		Top or B	ottom Entry as p	er customer requ	uirement			
ENVIRONMENTAL								
Type Of Cooling			Forced	cooling				
Operating		0.1	Degree Celsius to	55 Degree Celsi	ius			
Temperature								
Storage Temperature		-20	Degree Celsius t		sius			
Humidity			< 95% (Non	<u> </u>				
Installation Height			m, derating @ 1	<u> </u>				
Safety		IEC 6	2040-1-2, Funct	•	6-1-1			
Environment			Ro	HS				
PHYSICAL					ì			
Approx. Gross Weight (KG)	240	260	300	350	460	550		
Cabinet Model	CUB08	18061	CUB08	18081	CUB12	18082		
Dimension (W * D * H)mm	800 * 60	0 * 1800	800 * 80	0 * 1800	1200 * 80	00 * 1800		

Brilliant Series Three Phase Input 30Vdc Output Technical Data

Model	TPC30-10	TPC30-20	TPC30-40	TPC30-50	TPC30-75	TPC30-100	TPC30-150	
Output Capacity	30V/10A	30V/20A	30V/40A	30V/50A	30V/75A	30V/100A	30V/150A	
RECTIFIER INPUT	001/2011	301/2011	001/10/1	001/0011	001/7011	001/2001	001,20071	
Phase				3 Phase, 3W+G	ì			
Input PF				nal input and f				
Input Voltage				400V / 415V +				
Input frequency				Hz / 60Hz +/- !	*			
RECTIFIER DC OUTPUT								
Adjustable Range		From 80% to	o 135% of non	ninal voltage a	t +/- 15% of re	ctifier input		
Stability (Static)			+/- 1.5% @ +	·/- 15% of recti	fier AC input	•		
Stability (Dynamic)	-/+ 5% a	nt load change	d from 0% to 1	100% and vice	visa @ +/- 15%	6 of rectifier A	Cinput	
Recovery Time			< 250m	ns to be in stat	ic state			
Ripple Voltage	< 5%	as standard (0.1%, 1% & 2%	offered as op	tion) without l	pattery connec	ted	
Nominal DC Current		From 10Ac	lc to 500Adc (Higher ratings	are available o	n request)		
Adjustable Range				current limit a		<u> </u>		
Current Accuracy				1.5% of set po	<u> </u>			
DC Overcurrent				uous of nomin				
Characteristic		Constant c	urrent / const	ant voltage acc	cording to IU II	EC 60478-1		
High Pot Test				2.0KV / 1min				
Megger Test				500Vdc				
MECHANICAL SPECIFICA	TION							
Degree of Protection	IP 20 acco	rding to IEC 60	0529 & 60144	Standard (Oth	er IP ratings a	re available on	request)	
Equipment Colour	RAL7035 d	ome with pov	vder and anti-	rust coating (O	ther colours a	re available on	request)	
Acoustic Noise Level			≤ 65dB	at 1m away ty	pically			
Connection		Тор	or Bottom En	try as per custo	omer requiren	nent		
ENVIRONMENTAL								
Type Of Cooling		Natur	al cooling up t	o 75A & force	d cooling abov	e 75A		
Operating			O Degree Co	elsius to 55 De	gree Celsius			
Temperature								
Storage Temperature				Celsius to 70 De				
Humidity				6 (Non Conder				
Installation Height				ng @ 1% per 1				
Safety			IEC 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	12061			CUB0616061		
Dimension (W * D * H)mm		600 * 60	0 * 1200		60	00 * 600 * 160	0	

Brilliant Series Three Phase Input 30Vdc Output Technical Data

Model	TPC30-175	TPC30-200	TPC30-250	TPC30-300	TPC30-400	TPC30-500		
	30V/175A	30V/200A	30V/250A	30V/300A	30V/400A	30V/500A		
Output Capacity RECTIFIER INPUT	30V/1/3A	30V/173A 30V/200A 30V/230A 30V/300A 30V/400A 30V/3						
Phase			3 Phase	20016				
Input PF		0.9		•	~~			
·		0.6	380V / 400V /		ge			
Input Voltage Input frequency				Hz +/- 5%				
RECTIFIER DC OUTPUT			30H2 / 60	nz +/- 5%				
Adjustable Range		From 90% to 125	5% of nominal vo	ltago at +/ 15%	of rectifier input			
Stability (Static)			1.5% @ +/- 15%					
Stability (Dynamic)	/+ E9/ a+ l				/- 15% of rectifier	. AC input		
Recovery Time	-/+ 3/0 at 1	oad changed no	< 250ms to be		- 13% 01 Tectifier	ACIIIput		
Ripple Voltage	∠ F9/ ⊃4	standard (0.19/			acut hattary con	acted		
	< 5% d				nout battery conr	iectea		
Nominal DC Current			500Adc (Higher I					
Adjustable Range		0 to 100% boti	n rectifier curren		ry current limit			
Current Accuracy			+/- 1.5% o	<u> </u>				
DC Overcurrent			% continuous of					
Characteristic		Constant currer	nt / constant volt		O IU IEC 60478-1			
High Pot Test			2.0KV					
Megger Test			500	Vdc				
MECHANICAL SPECIFICAT								
Degree of Protection				-	ngs are available			
Equipment Colour	RAL7035 cor	ne with powder	and anti-rust coa	ating (Other colo	urs are available	on request)		
Acoustic Noise Level			≤ 65dB at 1m	away typically				
Connection		Top or B	ottom Entry as p	er customer requ	uirement			
ENVIRONMENTAL								
Type Of Cooling			Forced	cooling				
Operating		0	Degree Celsius to	55 Degree Celsi	ius			
Temperature Storage Temperature		20	Degree Celsius t	ro 70 Dograo Cole	ciuc			
Humidity		-20	< 95% (Non		sius			
Installation Height		0 to 1000	m, derating @ 1		vo 1000m			
Safety Environment		IEC 0	2040-1-2, Funct	HS	0-1-1			
PHYSICAL			, KU	пэ				
Approx. Gross Weight (KG)	255	280	320	360	470	570		
Cabinet Model	CUB08	18061	CUB08	18081	CUB12	18082		
Dimension (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	TPC48-10	TPC48-20	TPC48-40	TPC48-50	TPC48-75	TPC48-100	TPC48-150
Output Capacity	48V/10A	48V/20A	48V/40A	48V/50A	48V/75A	48V/100A	48V/150A
RECTIFIER INPUT							
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% t	o 135% of non	ninal voltage a	t +/- 15% of re	ctifier input	
Stability (Static)			+/- 1.5% @ +	·/- 15% of rect	fier AC input		
Stability (Dynamic)	-/+ 5% a	nt load change	d from 0% to 1	100% and vice	visa @ +/- 15%	6 of rectifier A	Cinput
Recovery Time			< 250m	ns to be in stat	ic state		
Ripple Voltage	< 5%	as standard (0.1%, 1% & 2%	offered as op	tion) without l	oattery connec	ted
Nominal DC Current		From 10Ac	lc to 500Adc (Higher ratings	are available o	n request)	
Adjustable Range		0 to 100%	both rectifier	current limit a	and battery cu	rrent limit	
Current Accuracy			+/-	1.5% of set po	oint		
DC Overcurrent			110% contin	uous of nomin	al DC current		
Characteristic		Constant c	urrent / const	ant voltage ac	cording to IU II	EC 60478-1	
High Pot Test				2.0KV / 1min			
Megger Test				500Vdc			
MECHANICAL SPECIFICA	TION						
Degree of Protection	IP 20 acco	rding to IEC 60	0529 & 60144	Standard (Oth	er IP ratings a	re available on	request)
Equipment Colour	RAL7035 (come with pov	vder and anti-	rust coating (C	ther colours a	re available on	request)
Acoustic Noise Level			≤ 65dB	at 1m away t	pically		
Connection		Тор	or Bottom En	try as per cust	omer requiren	nent	
ENVIRONMENTAL							
Type Of Cooling		Natur	al cooling up t	o 75A & force	d cooling abov	e 75A	
Operating			O Degree Ce	elsius to 55 De	gree Celsius		
Temperature							
Storage Temperature				Celsius to 70 D			
Humidity		•		6 (Non Conder	<u> </u>		
Installation Height				ng @ 1% per 1			
Safety			IEC 62040-1-2	, Functionality	IEC 60146-1-1		
Environment				RoHS			
PHYSICAL							
Approx. Gross Weight (KG)	100	115	135	150	200	230	290
Cabinet Model		CUB06	12061			CUB0616061	
Dimension (W * D * H)mm		600 * 60	0 * 1200		60	00 * 600 * 160	0

Brilliant Series Three Phase Input 48Vdc Output Technical Data

Model	TPC48-175	TPC48-200	TPC48-250	TPC48-300	TPC48-400	TPC48-500
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	8 at nominal inpu	it and float volta	ge	
Input Voltage			380V / 400V /	415V +/- 15%		
Input frequency			50Hz / 60	Hz +/- 5%		
RECTIFIER DC OUTPUT						
Adjustable Range		From 80% to 135	5% of nominal vo	Itage at +/- 15%	of rectifier input	
Stability (Static)		+/-	1.5% @ +/- 15%	of rectifier AC in	put	
Stability (Dynamic)	-/+ 5% at I	oad changed fro	m 0% to 100% aı	nd vice visa @ +/	- 15% of rectifier	AC input
Recovery Time			< 250ms to be	in static state		
Ripple Voltage	< 5% as	s standard (0.1%,	, 1% & 2% offere	d as option) with	out battery conr	nected
Nominal DC Current		From 10Adc to	500Adc (Higher i	ratings are availa	ible on request)	
Adjustable Range		0 to 100% botl	h rectifier curren	t limit and batte	ry current limit	
Current Accuracy			+/- 1.5% o	f set point		
DC Overcurrent		110)% continuous of	nominal DC curr	ent	
Characteristic		Constant currer	nt / constant volt	age according to	IU IEC 60478-1	
High Pot Test			2.0KV	/ 1min		
Megger Test			500	Vdc		
MECHANICAL SPECIFICA	TION					
Degree of Protection	IP 20 accord	ing to IEC 60529	& 60144 Standa	rd (Other IP rati	ngs are available	on request)
Equipment Colour	RAL7035 cor	me with powder	and anti-rust coa	iting (Other colo	urs are available	on request)
Acoustic Noise Level			≤ 65dB at 1m	away typically		
Connection		Top or B	ottom Entry as p	er customer requ	uirement	
ENVIRONMENTAL						
Type Of Cooling			Forced	cooling		
Operating Temperature		0	Degree Celsius to	55 Degree Celsi	us	
Storage Temperature		-20	Degree Celsius t	o 70 Degree Cel	sius	
Humidity			< 95% (Non		5143	
Installation Height		0 to 1000	m, derating @ 19		ve 1000m	
Safety			2040-1-2, Functi			
Environment		1200	Ro	•	0 1 1	
PHYSICAL			110			
Approx. Gross Weight (KG)	260	280	350	400	480	580
Cabinet Model	CUB08	18061	CUB08	18081	CUB12	18082
Dimension (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	TPC110-10	TPC110-25	TPC110-50	TPC110-75	TPC110-100	TPC110-150			
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 inpu	t and float voltag	e				
Input Voltage			380V / 400V /	415V +/- 15%					
Input frequency			50Hz / 60	Hz +/- 5%					
RECTIFIER DC OUTPUT									
Adjustable Range		From 80% to 13!	5% of nominal vo	ltage at +/- 15%	of rectifier input				
Stability (Static)		+/-	1.5% @ +/- 15%	of rectifier AC in	put				
Stability (Dynamic)	-/+ 5% at I	oad changed froi	m 0% to 100% an	d vice visa @ +/-	15% of rectifier	AC input			
Recovery Time			< 250ms to be	in static state					
Ripple Voltage	< 5% as	s standard (0.1%,	1% & 2% offered	d as option) with	out battery conne	ected			
Nominal DC Current		From 10Adc to	500Adc (Higher	ratings are availa	ble on request)				
Adjustable Range		0 to 100% bot	h rectifier curren	t limit and batter	ry current limit				
Current Accuracy			+/- 1.5% o	f set point					
DC Overcurrent		110	0% continuous of	nominal DC curr	ent				
Characteristic		Constant curre	nt / constant volt	tage according to	IU IEC 60478-1				
High Pot Test			2.0KV	/ 1min					
Megger Test			500	Vdc					
MECHANICAL SPECIFICAT	TION								
Degree of Protection	IP 20 accord	ing to IEC 60529	& 60144 Standa	rd (Other IP ratin	gs are available o	n request)			
Equipment Colour	RAL7035 cor	ne with powder	and anti-rust coa	ting (Other colou	ırs are available o	n request)			
Acoustic Noise Level			≤ 65dB at 1m	away typically					
Connection		Top or B	ottom Entry as p	er customer requ	uirement				
ENVIRONMENTAL									
Type Of Cooling		Natural co	oling up to 75A &	& forced cooling	above 75A				
Operating		0	Degree Celsius to	55 Degree Celsi	IIS				
Temperature									
Storage Temperature		-20	Degree Celsius t		sius				
Humidity			< 95% (Non						
Installation Height			m, derating @ 1	<u> </u>					
Safety		IEC 6	5 <mark>2040-1-2, Funct</mark>	•	5-1-1				
Environment			Ro	HS					
PHYSICAL									
Approx. Gross Weight (KG)	100	150	270	400	425	490			
Cabinet Model		CUB0612061			CUB0616061				
Dimension (W * D * H)mm		600 * 600 * 1200)		600 * 600 * 1600)			

Brilliant Series Three Phase Input 110Vdc Output Technical Data

Model	TPC110-175	TPC110-200	TPC110-250	TPC110-300	TPC110-400	TPC110-500		
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 voltag	e			
Input Voltage			380V / 400V /	415V +/- 15%				
Input frequency			50Hz / 60	Hz +/- 5%				
RECTIFIER DC OUTPUT								
Adjustable Range		From 80% to 135	5% of nominal vo	Itage at +/- 15%	of rectifier input			
Stability (Static)		+/-	1.5% @ +/- 15%	of rectifier AC in	put			
Stability (Dynamic)	-/+ 5% at l	oad changed fror	n 0% to 100% an	d vice visa @ +/-	15% of rectifier	AC input		
Recovery Time			< 250ms to be	in static state				
Ripple Voltage	< 5% as	standard (0.1%,	1% & 2% offered	l as option) with	out battery conne	ected		
Nominal DC Current		From 10Adc to	500Adc (Higher i	atings are availa	ble on request)			
Adjustable Range		0 to 100% botl	h rectifier curren	t limit and batter	ry current limit			
Current Accuracy			+/- 1.5% o	f set point				
DC Overcurrent		110	% continuous of	nominal DC curr	ent			
Characteristic		Constant currer	nt / constant volt	age according to	IU IEC 60478-1			
High Pot Test			2.0KV	/ 1min				
Megger Test			500	Vdc				
MECHANICAL SPECIFICAT	ΓΙΟΝ							
Degree of Protection	IP 20 accordi	ing to IEC 60529	& 60144 Standar	d (Other IP ratin	gs are available o	n request)		
Equipment Colour	RAL7035 con	ne with powder a	and anti-rust coa	ting (Other colou	ırs are available o	n request)		
Acoustic Noise Level			≤ 65dB at 1m	away typically				
Connection		Top or B	ottom Entry as p	er customer requ	uirement			
ENVIRONMENTAL								
Type Of Cooling		Natural co	oling up to 75A &	k forced cooling	above 75A			
Operating		0	Degree Celsius to	55 Degree Celsi	us			
Temperature								
Storage Temperature		-20	Degree Celsius t		sius			
Humidity		0. 1000	< 95% (Non		1000			
Installation Height			m, derating @ 1	<u> </u>				
Safety		IEC 6	2040-1-2, Functi		b-1-1			
Environment			Ro	HS				
PHYSICAL								
Approx. Gross Weight (KG)	550	630	720	900	970	1050		
Cabinet Model	CUB08	18081	CUB12	18082	CUB16	18082		
Dimension (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	TPC220-10	TPC220-25	TPC220-50	TPC220-75	TPC220-100	TPC220-150
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 inpu	t and float voltag	e	
Input Voltage			380V / 400V /	415V +/- 15%		
Input frequency			50Hz / 60	Hz +/- 5%		
RECTIFIER DC OUTPUT						
Adjustable Range		From 80% to 135	5% of nominal vo	ltage at +/- 15%	of rectifier input	
Stability (Static)		+/-	1.5% @ +/- 15%	of rectifier AC in	put	
Stability (Dynamic)	-/+ 5% at l	oad changed fror	n 0% to 100% an	d vice visa @ +/-	15% of rectifier	AC input
Recovery Time			< 250ms to be	in static state		
Ripple Voltage	< 5% as	standard (0.1%,	1% & 2% offered	d as option) with	out battery conn	ected
Nominal DC Current		From 10Adc to	500Adc (Higher	ratings are availa	ble on request)	
Adjustable Range		0 to 100% bot	h rectifier curren	t limit and batter	y current limit	
Current Accuracy			+/- 1.5% o	f set point		
DC Overcurrent		110	% continuous of	nominal DC curr	ent	
Characteristic		Constant curre	nt / constant volt	age according to	IU IEC 60478-1	
High Pot Test			2.0KV	/ 1min		
Megger Test			500	Vdc		
MECHANICAL SPECIFICA	TION					
Degree of Protection	IP 20 accord	ing to IEC 60529	& 60144 Standa	rd (Other IP ratin	gs are available c	n request)
Equipment Colour	RAL7035 cor	ne with powder	and anti-rust coa	ting (Other colou	ırs are available c	n request)
Acoustic Noise Level			≤ 65dB at 1m	away typically		
Connection		Top or B	ottom Entry as p	er customer requ	uirement	
ENVIRONMENTAL						
Type Of Cooling		Natural co	oling up to 50A &	k forced cooling	above 50A	
Operating		0	Degree Celsius to	55 Degree Celsi	us	
Temperature						
Storage Temperature		-20	Degree Celsius t		sius	
Humidity		0. 1000	< 95% (Non		1000	
Installation Height			m, derating @ 1	<u> </u>		
Safety		IEC 6	2040-1-2, Funct	-	o-1-1	
Environment			Ro	HS		
PHYSICAL						
Approx. Gross Weight (KG)	150	180	290	350	440	500
Cabinet Model	CUB06	12061	CUB06	16061	CUB08	18061
Dimension (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	TPC220-175	TPC220-200	TPC220-250	TPC220-300	TPC220-400	TPC220-500		
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 input	and float voltage	e			
Input Voltage			380V / 400V /	415V +/- 15%				
Input frequency			50Hz / 60	Hz +/- 5%				
RECTIFIER DC OUTPUT								
Adjustable Range		From 80% to 13!	5% of nominal vo	ltage at +/- 15%	of rectifier input			
Stability (Static)		+/-	1.5% @ +/- 15%	of rectifier AC in	put			
Stability (Dynamic)	-/+ 5% at l	oad changed fror	n 0% to 100% an	d vice visa @ +/-	15% of rectifier	AC input		
Recovery Time			< 250ms to be	in static state				
Ripple Voltage	< 5% as	standard (0.1%,	1% & 2% offered	as option) with	out battery conne	ected		
Nominal DC Current		From 10Adc to	500Adc (Higher r	atings are availa	ble on request)			
Adjustable Range		0 to 100% bot	h rectifier curren	t limit and batter	y current limit			
Current Accuracy			+/- 1.5% o	f set point				
DC Overcurrent		110	% continuous of	nominal DC curr	ent			
Characteristic		Constant curre	nt / constant volt	age according to	IU IEC 60478-1			
High Pot Test			2.0KV ,	/ 1min				
Megger Test			500	Vdc				
MECHANICAL SPECIFICAT	ΓΙΟΝ							
Degree of Protection	IP 20 accord	ng to IEC 60529	& 60144 Standar	d (Other IP ratin	gs are available o	n request)		
Equipment Colour	RAL7035 con	ne with powder a	and anti-rust coat	ing (Other colou	ırs are available c	n request)		
Acoustic Noise Level			≤ 65dB at 1m a	away typically				
Connection		Top or B	ottom Entry as pe	er customer requ	uirement			
ENVIRONMENTAL								
Type Of Cooling		Natural co	oling up to 75A 8	k forced cooling	above 75A			
Operating		0	Degree Celsius to	55 Degree Celsi	us			
Temperature								
Storage Temperature		-20	Degree Celsius t		sius			
Humidity		0.1.1000	< 95% (Non 0	<u>U,</u>	1000			
Installation Height			m, derating @ 19	<u>.</u>				
Safety		IEC 6	2040-1-2, Functi	<u> </u>	b-1-1			
Environment			Ro	HS				
PHYSICAL								
Approx. Gross Weight (KG)	560	640	750	930	1035	1150		
Cabinet Model	CUB08	18081	CUB12	18082	CUB16	18082		
Dimension (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

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