MSTECHNOLOGIES

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Less expensive to run than any generator of similar rating

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LUMINOUS

3 PHASE LIFT UPS SPECIFICATIONS (LIFT PRO)

Contents	Parameters	6KVA / 72VDC	7.5KVA / 180VDC	10KVA / 180VDC	15KVA / 180VDC
Technology	Topology	DS	P CONTROLLED, IGBT BASE	D. WITH TRANSFORMER	
Rating	System Rating	6KVA / 72V DC	7.5KVA / 189V DC	10KVA / 180V DC	15KVA / 180V DC
	PP Configuration		0.7 3P + N + E (3 PHAS	E, 4 WIRES + EARTH)	
	Output Voltage Setting		400/380V Phase-Phase (30/220V P-N) on Battery	
	Output Voltage Regulation On Battery		+/.	2%	
	Output Frequency on Battery		50 Hz	± 0.5 Hz	
	Output Voltage In Mains Mode		Same	As Input	
	Output Frequency In Mains Mode		Same	As Input	
	THD (Resistive Load)				
	()			3%	
	THD (Inductive Load) THD (Non Linear Load)			2% 79/	
	THE DESIGNATION CORE			/ /6	
Output			110% FOR 51	ŧN	
Output	Overload		150% FOR 15 200% FOR 7 S	SEC	
			300% FOR 3 5	EC	
			>=88%	UPS Mode	
		>=88% UPS	> 98% in Mains Mode	(Excluding Charging)	
	Efficiency		Mains to UPS 1 sec /	5 sec (User Selectable)	
			UPS to Mains, No I	Break < 2msec	
			± 5%		
	Transfer Time				
	Transient Resonate				
	Recovery Time		< 60mSEC TO ± 5%	OF NOMINAL VOLTAGE	
	O/P Voltage Regulation On 100% Unbalanced Load		Ŧ	5%	
	Short Circuit Protection			YES	
	Creat Eactor			9-4	
	Nominal Input Voltage		415V. 3PHA	SE + NEUTRAL	
land.	Voltage Range		150-280V / 180-270V / 190- 260- 485V /312-468V /329-4	260V (SINGLE PHASE) 50V (THREE PHASE)	
input					
	DG Control From UPS		0.851 OPTI	O 0.92 DNAL	
	Current Distortion		CHAR CHAR	CEP MODE	
	And the second s			Contraction of the second s	





CONTENTS	PARAMETERS	5KVA / 72VDC	7.5KVA / 180VDC	10KVA / 180VDC	15KVA / 240VDC	20KVA / 360VDC					
	Amblent Temperature			45 Deg C							
InvironmentENVIRO	penet depending			95% RH-Humidity < 55 DB							
	Dimensions JW X H X D			320 X 625 X 530		100 W 200 W 000					
Dimensions	Weight (Kg)	75	77.5		125	130					
IP Protection	Class			IP20							
Ventilation	Ventiation		Forred Air Co	onieri							
			Reverse Bat	tery							
			Mains Low / H	igh Cut							
			De Low Volts De Over Vol	age tage							
Protection			Short Circuit Pr	rotection							
			Mains Input Breaker, Battery Break	atore ter, Electronic Protection, Past A	cting HRC Puse in ICBT						
			Circuit of UPS	3 Block							
Disnlay	LGD Display + LED		Monoch	rome Alphanumeric LCD + 5 LE	0's						
			Bat	tery Chg. / Charged							
				UPS On							
	LED Indication			Overload / Short Circuit							
Indications				Battery Low							
				Phase Reversal							
	LCD Indication	Sys	tem Capacity, Input Voltage, Output	t Voltage, Frequency, Battery Vi	itage, Battery Type, System Sett	ings					
				LIPS On							
				Manual ByPass							
			LCD E	Sisplay Parameters Scroll / Hold							
			Input Windo	w Selection (Narrow / Medium /	//ide)						
Selection Switches	User Selection Switches		Battery T	ype Selection (SMF / Flat / Tubu	lar)						
			Charging C	urrent Selection (Low / Medium	(High)						
			Output	Charging Current Selection (Low / Medium / High)							
		Output Voltage Selection 220V / 230V									

In

LUMINOUS



3-PHASE INDUSTRIAL UPS SPECIFICATIONS (PRO)

CONTENTS	PARAMETERS	5KVA / 72VDC	7.5KVA / 180VDC	10KVA / 180VDC	15KVA / 240VDC	20KVA / 360VDC			
Technology	Topology		DSP CONTROLI	ED, IGBT BASED, WITH TRANS	FORMER				
Rating	System Rating	5KVA / 72V DC	7.5KVA / 180V DC	10KVA / 180V DC 15KVA / 2404	DC .	20KVA / 360V DC			
				0.8					
	Configuration		3P +	N + E (3 PHASE, 4 WIRES + EA	RTH)				
	Output Voltage Setting		400/280/1	Phase Phase (220/220)/ P Ni on	Potteor				
	Output Voltage Regulation On Battery			+/-2%					
	Output Frequency on Battery			50 Hz ± 0.5 Hz					
	Output Voltage in Mains Mode			Same As locut					
	Output Frequency in Mains Mode			Same As Input					
	THD (Resistive Load)			-3%					
	THD (Inductive Load)			\$3%					
	THD (Non-Linear Load)			%</td <td></td> <td></td>					
				110% for 5 Min					
Output		10/7 ktr 10 dec							
	Overload	2007 617 040							
				100% IDD Mode					
		- So Maine Minie Pentration Chaminet							
			> 05% in	Maine Mode (Lockarding Charging	0				
		 advertermente en la construction (michaeling) Maine fer LIPS 200mene 							
	Efficiency	IPS to Mains No Reserve							
				+ 5%					
			< 60m	sec to + 5% of Nominal Voltane					
	Transfer Time								
	Transford Deserves								
	Recovery Time								
	Recovery nine								
	C/p Voltage Hegulation on			¥ 5%					
	100% Unbalanced Load								
	Short Circuit Protection			VEQ					
	Creet Easter			24					
	Nominal Input Voltage			415V. 3PHASE + NEUTRAL					
Input	Voltage Range	150-280V / 180	1-2/0V / 190-260V (SINGLE PHAS	E) 280-4	85V /312-468V /329-450V (THRE	E PHASE)			
	95								
	Trans.	1		0.85-10-0.92					
	Type Dattage Calenting			FLUAL - HUUS (, CVCC TYPE					
	Date y Selector			SMF / FLAT / TUBULAR					
	THE OF DESIGNATION		15	19	30	30			
Battery					-0				
Charger	Charging Current Even	1		50 / 100 / 150 (Selectable)					
	at Lowest Range			arrest (derectable)					
		1							
	Back Up Time	1		Batteries Dependent					

GET A HIGH-CAPACITY CRUZE UPS THAT RUNS EVERYTHING*







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DENTAL CHAIRS



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OFFICES





VARIANTS

V ari an ts	I REFRIGERATOR	1)!* *C	WASHING			COPIER	DENTAL CHAIR	CYBER CAFES
Cruze+ 2KVA (24V - 2 Battery)	٠			•	٠		•	٠
Cruze+ 2.5KVA (36V - 3 Battery)	•			•	•		•	•
Cruze+ 3.5KVA (48V - 4 Battery)	•	•	•	•	٠	•	•	•
Cruze+ 4KVA (48V - 4 Battery)	•	•	•	•	٠	٠	•	•
Cruze 5.2KVA (72V - 6 Battery)	•	•	•	•	٠	•	•	•
Cruze 5.5KVA (96V - 8 Battery)	•	•	•	•	•	•	•	•
Cruze 7.5KVA (120V - 10 Battery)	•	•	•	•	•	•	•	•
Cruze 10KVA (180V - 15 Battery)		•	•	•	•	•	•	•

Category	Requirement			Specifications				
Power Rating		5500VA	6000VA	7500VA	10000VA			
	Input & Output Connection			60A Terminal Block				
	LIPS On							
	Battery Low		SWITCH ON	UPS ON				
	Mains On		THEF BATTER	HING ON				
	Smart Charge/ Boost Charging		DATT CUAD	ININO UN				
	Battery Charged/ Float Charge		BATT CHAR	ANG ANG				
Indications	Overload		BATTERT CH	OAD				
in renderion ra	Over Temperature Protection		THEDMAL OF	LITDOWN				
	Short Circuit Under Battery Mode		SHORT CIR	CUIT				
	MCB Trip/ Short Circuit in Mains Mode		INPLIT MCB	TRIP				
	Low Ballery Pre-Alam		One Beep Eve	ry 10 Sec				
	Low Ballery		Continuous Bee	p for 10 Sec				
	No Load Shutdown		Continuous Bee	p for 10 Sec				
	Short Circuit	Continuous Beep for 10 Sec						
	Majos Fall/ URS On	Continuous Beep for 10 Sec						
Audible Alarms	Over Load Mains Mode		5 Beeps in 2	Secs				
	Over Load On Battery		SUA AC MCB8SA AC	MUS	IDD Made)			
	Short Circuit		10-14 (0-111105-4010-4010-4017-11-0	педиало ото мосетно нелу п недиало с	r-s-male)			
	Over Temperature		VEO					
	Battery Reverse Polarity		VEG					
	Low Battery		YES					
	Ambient Operating Temperature		0.45 Dee C					
Protections	Storage Temperature		0-45 Deg C					
	Cooling System		95 % RH Non-4	Condensing				
	Coconing Operation		Fan					
			63.26491.85					
			79.280123.8					
Emission		588 x 3	41 x 347600 x 350 x 360625 x 3	45x510				
Environmental			LCD Displa	Y				
			Meal / Meal Wit	Pront Parks				
	New Western dates	60.2						
	Come Malaki (Ka)	75.2						
	Cross rregin (Rg)	1014						
Physical	Display Type							
	Enclosure							

User Interface

As per typical usage. For light loads, we recommend that the capacity of the UPS to be 1.3 times the rated power of connected loads. For heavy loads, we recommend the capacity of the UPS to be 3 times the rated power of connected loads.



LUMINOUS 5-10KVA UPS SPECIFICATIONS (CRUZE)

		Description and			Provident and a second s	
Ca	tegory Potion	Requirement	55000 M	0000014	3 Specifications 7 Solovia	10000011
	ter nating		0000VA	0000774	TOOVA	1000044
		Input Voltage Mains Mode			180 to 260 V AC	
		Major Mode (Linner (ated LIPS Mode)				
	nput	Frequency			140 to 280 V AC	
		Input Protection			4010 00 112	
				50/	A MCB	63A MCB
	<u> </u>				Sine Wave	
		Lower Cut Off Voltage/ Restoration Voltage / UpRequisted UPS Mode)			140 V AC / 150 V AC	
		Upper Cut Off Voltage / Restoration				
		Voltage -(UnRegulated UPS Mode)			285V AC / 270 V AC	
		Lower Cut Off Voltage/ Restoration				
	Voltage	Voltage (Regulated UPS Mode)			180 V AC / 185 V AC	
	-	Voltage /Regulated LIPS Mode)				
		· · · · · · · · · · · · · · · · · · ·			260 V AC / 255 V AC	
		0.0.0				
Output		On Battery No Load & at				
Output		Nominal Ration Voltage			230V +/- 2%	
		Malan Mada				
		Maris Node.			200000 0.0000	
	Downer	Apparent Power	5500VA (g 230V	6000VA (g 230V	7500VA @ 230V	10000VA (g 230V
	1 Ones	On Basery .				
		Bulb Load (Max)	4200 Watts	4800 Watts	6000 Watts	8000 Watts
		Francisco (en Maler Mada)				
	Frequency	Erequency (on Patt Mode)			4010 60 Hz	
	TUD	THD % (on Battery Linear/Resistive Load)			ce 5%	
	Inu	Transfer Time (Mains to UPS Mode)			< 20 ms	
	Change	Retransfer Time (UPS to Mains Mode)			< 20 mg	
	Over Time	Charger Current			5A/8A/12A	
		Battery System (Nominal Voltage)			1	
		No. of Batteries	96 V DC	120 V DC	120 V DC	189 V DC
		Charging Prote	8	10	10	15
0	harger	Charging time Rolling: Connolly			Adaptive Battery Charging System	
	mangen	Type of Battery			10 - 12 hrs Typical	
		On/Off Switch on Front Panel			120Ah-150Ah	
		By Pass Switch External			Hatrubuar	
		180-250 / 140-280V Operation Selection			Yes	
		Switch On External Rear Panel			15	
		High / Medium Low Charge Selection				
		Switch On External Rear Panel				
		Battery Type Selection Switch On			Yes	
		External Rear Panel				
					No/ Internal	
User	Interface					
					No/ Internal	
		A C Marintum Charles Develop Free				
		I NO MILIABLE OFCUT BLOAKELFOL				
		Mains Mode On Rear Panel			Yes	
		Mains Mode On Rear Panel DC Miniature Circuit Breaker For			Yes	
		Mains Mode On Rear Panel DC Miniature Circuit Breaker For Battery Mode On Rear Panel			Yes (63A DC MCB)	
		Mains Mode On Rear Panel DC Miniature Circuit Breaker For Battery Mode On Rear Panel DC Miniature Circuit Breaker For			Yes (63A.DC.MCB)	

BRIEF TECH SPECIFICATIONS

OU T PUT C A PA C I TY	2KVA	2.5KVA	3.5KVA	4KVA	5.2KVA	5.5KVA	7.5KVA	10KVA
Nominal Battery Voltage	24V	36V	48V	48V	72V	96V	120V	180V
Input Voltage Range	100-285V	100-285V	100-285V	100-285V	140-280V	140-280V	140-280V	140-280V
Bulb Load (Max)	1680 Watt	2100 Watt	2940 Watt	3360 Watt	4000 Watt	4200 Watt	6000 Watt	8000 Watt
Charging Current (Max)	21A	21A	21A	21A	21A	12A	12A	12A
Gross Weight (In Kg)	22.25	23	31.9	31.9	44.5	72.5	80	123.8
Dimensions (In Cm)	28x30.5x28	28*30.5*38	28*30.5*38	28*30.5*38	28x36.5x28	58.8x34.1x34.7	60x35x36	62.5x34.5x51

PRO 3 Phase

If life never stops during a power cut, why should your equipments? With the Luminous Pro range of UPS systems, you get an advanced solution that never stops during power cuts! It's the perfect solution for you If you're running electronic appliances, sensitive machinery, medical equipment, or have heavy power requirements.





Calenny	Parameter			Specifications						
Power Rating	- second fielder	2000774	2500VA	3500VA	400074	52001/4				
	180,260V AC / 100,285V AC Operation	2000114	2000 000		4000474	0200074				
	Selection Switch on External Rear Panel			Yes						
	High Medium I aw Charge Selection Switch									
	on External Rear Panel	-	Yes							
	Dellas Trac Oslasfee Oslash ee									
User Interface	External Rear Panel			Yes						
	AC Maintern Charles Develop									
	for Mains Mode on Rear Panel			Yes						
	For Battery Mode on Rear Panel	No	No	Yes	(63A DC)	Yes (63A DC)				
	Input & Output Connection on Rear Panel	20A - 4 Way	-terminal-block		30A - 4 Way Terminal B	ook				
	Bettery Fuse			Internal on PCBA						
	UPS On			UPS."On"						
	Battery Low			UPS, "Lo"						
	Mains-On			MAINS ON, "AG"						
	Smart Charge/ Boost Charging		MAINS ON, SMART CHG, "CH"							
the distant second	Battery Charged/ Float Charge	MAINS CN, BATTERY CHARGED, * 99%*								
indications	Overload		UPS, "OL"							
	No Load Shutdown			"ol."						
	Over Temperature Protection			LIRS 202						
	Short Circuit Lloder Batter: Mode	"UPS" Binking, "OL" Binking								
	NOD Trial Charl Class (In Males Made			MAINS ON 11-1						
	Mob mp onor circuit in Maira Mobe			Ore Date Date (0 and						
	Low Dattery Pre-Alarm			Unio Boop Every 10 Sec						
	Low Battery			Coronuous Beep for 10 sec-						
Audible Alarms	Overload			Continuous Beep for 10 sec-						
	No Load Shutdown			Continuous Beep for 10 sec						
	- Shert Circuit			- Continuous Beep for-10-see-						
	Mains Fall UPS On		1	5 Beeps in 2 secs						
	OverLoad Mains Mode	16A AC MCB16A AC	M6832 \AC-4 :55			40A AC MCB				
	- Cyler Loop on Ressloy V (-	> 110 % (5 Tim	es Auto Rint yi : Chrenulate	2028 Mode / No Petry in Lieg	al al 1926 Cinde)					
	Short Circuit			YES						
	0 - Ofer Telepolatute					NHTO-				
OVVER	Battert Powerse Politik		<u> </u>							
	Low Battery			VES						
LOW	BUNNING COST			H I GH, AS DESCRIPTION	EN C Y AN D	R E L I AB IL I T Y				
	Persona Operating reinpersone									
Environme	CITES AND A CONTRACTOR	1		0-45 Deg C						
	nomoxy			05 % DU MeerOnericosico						
	- Looning System			and a contract of the second s						
	Audible Noise			- Less than 65dBA (at 1m)						
			1 00		24.0	44.5				
	Net Weight (Kg)	22.25	25		280 X 305 X 380 280 × 305 × 380 280 × 365 × 380					
Physical	Net Weight (Kg) — Dimension (Length x Width x Height) (mm)	22.25 	305 X 380	280 x 305 x 380	51.5	-280 × 365 × 380				
Physical	Net Weight (Kg) Dimension (-Length x Width x Height) (mm) Display Type	22/25 	: 305 X 380	280 x 305 x 380 & 7-Segment Display / LCD Di	splay	44.5 280 x 365 x 380				

LUMINOUS

LUMINOUS 2-5KVA UPS SPECIFICATIONS (CRUZE)

0		Decemeter			Constitutions		
Cate	gory	- Bronnever			25001/4		
Powe	Raing		2000VA	2500VA	3000 010	4000VA	5200VA
		Input Voltage Mains Mode (Regulated UPS Mode)			180 to 260 V AC		
Ir	put	Mains Mode (Unregulated UPS Mode)			100 to 285 V AC		
If life	newer stops	Frequency during a power cut, why should your equir	monte?		40 to 60 Hz		
11 1110	never stops	Input Protection	16A MCB	16A-MCB	3	A MCB	40A MCB
		Innut Sume Protection			MOV		
With	the Luminou	Pro rangeon Batterysystems, you get an ad	vanced solutionof UF	'S	Size Wave		
Model	Vaveform				010 11010		
that	novor stops d	wans more :	of Marine the				
tilat	ever stops u	uning power cuts: it's restorator volagetower o	a on volage the	100 1/ 40 /	115 V AC		140 Y AC / 150 Y AC
pene	ci solution io	YU(BnRegulated UPS Mode)		100 1 100 1	110 4 40		140 7 80 7 150 7 80
if yo	i're running e	ectroniccut off Votage /sensitive machinery,	medicalupper				
appl	ances, Restora	ion VoitanRegulated UPS Mode)			285 V AC / 2/0 V AC		
		in month and in the later have	L .				
00.10	Lower power	er requirements.equipment, or nave neavy	Cut		180 V AC / 185 V AC		
V	Itage	conditation on o money					
		Upper Cut Off Voltage/ Restoration Voltage	1		260 V AC / 255 V AC		
		-(Regulated DPS Mode)					
		On Battery :					
		On Pattery No Load & at Neminal Pattery					
Output		Voltage			220V +/- 2%		
Output		Malas Mada					
		Maris Mode.					
	Rated	Apparent Power	2000VA @ 230V	2500VA @ 230V	35004	N @ 230V	5200VA @ 230V
	Power	On Battery :			1		
			4000 1000	0400 10100	0040 1000	0000 100-00	1000 101-00
		Bub Load (Max)	1000 Walts	2100 Watts		3360 Wats	4000 Watts
		Frequency (on Mains Mode)					
	Frequency	Francisco (en Dati Mada)			60 HY 4/ 0 5HY		
		rrequency (or bas wode)					
	Efficiency	On Batt Mode (at Nominal Load & Nominal Batter (novit)	1		> 85% Typical		
		THD % (on Battery, Linear/Resistive Load)					
	THD				<# 5%		
	Change	Transfer Time (Mains to UPS Mode)			< 20 ms / 10ms Typical	10	
	over time	Retransfer Time (LIRS to Malos Mode)			20ms 10ms Proice	10	
DC	Start	Cold Start			Yes		
		Charger Current			H E AVY	/ U S AGE	
		Battery System (Nominal Voltage)	24 V DC	36.7.00	48 V DG		72.4.00
		No. of Batteries	2	3			6
Ch	arger	Charging Profile		Ad	aptive Battery Charding Syste		
Ch	arger	Charging Profile Charging Time		Ad	aptive Battery Charding Syste 10–12 hrs Typical	u	
Ch	arger	Charging Profile Charging Time Battery Conscitu		Ad	aptive Battery Charding Syste 10–12 hrs Typical 120Ah 240Ah	1	
Ch	arger	Charging Profile Charging Time Battery Gapacity		Ad.	aptive Battery Charding Syste 10 - 12 hrs Typical 120Ah-240Ah Dat/Tubular or Tubular/ARI A	14	
Ch	arger	Charging Profile Charging Time Battery Capadity Type of Battery		Adi	aptive Battery Char∮r-y Syste 10 - 12 hrs Typical 120Ab-240Ab Flat/Tubular or Tubular/VRLA		
Ch	arger	Charging Profile Charging Time Battery Capacity Type of Battery On Off Switch on Front Panel		Adi	aptive Battery Char∮r-y Syste 10 - 12 hrs Typical 120Ah-240Ah Flat/Tubular or Tubulari/VRLA Yes		





PRO 3 Phase BRIEF TECH SPECIFICATIONS

VARIANT	5KVA	7.5KVA	10KVA	15KVA	20KVA
Nominal Battery Voltage	72V DC	180V DC	180V DC	240V DC	360V DC
Nominal Input Voltage		415	/, 3PHASE + NEU	ITRAL	
Charging Current		5A /	10A / 15A (Select	able)	
Dimensions	320X625X530	320X625X530	320X625X530	400X755X680	400X755X680
Gross Weight	77.5KG	77.5KG	89.6KG	125KG	130KG



VARIANT	6KVA	7.5KVA	10KVA	15KVA
Nominal Battery Voltage	72V DC	180V DC	180V DC	180V DC
Nominal Input Voltage		415V, 3PHAS	E + NEUTRAL	
Charging Current		5A / 7A / 10A	(Selectable)	
Dimensions	320X625X530	320X625X530	320X625X530	320X625X530
Gross Weight	77.5KG	77.5KG	82KG	89.6KG

