#### **MADE IN INDIA**



# PRODUCT CATALOGUE

www.invertekenergy.com Customer Care No.: +91 9311369797

### About Us



### **Empowering Your World, Sustainably**

Welcome to Invertek Energy, your reliable partner in providing innovative energy solutions. We are specialized in offering a comprehensive range of products, including UPS/inverters, Solar PCU, solar panels, ESS, Lithium and Lead acid batteries, designed to meet the diverse needs of both residential and commercial users. For many years, Invertek Energy has been at the forefront of redefining energy storage solutions, combining quality with innovation to deliver products that are not only reliable but also eco-friendly. Our commitment to excellence has earned us a reputation as a trusted provider of high-quality power backup solutions in the energy sector.

Our products are crafted to be long-lasting and dependable, providing robust backups when you need them the most. At Invertek Energy, we guarantee that you are investing in solutions that are trusted worldwide for their performance and sustainability.

Join the Invertek Energy family and experience the peace of mind that comes from knowing your energy needs



Our motto is 'Making Today Powerful, Making Tomorrow Bright.' At Invertek Energy, we are dedicated to coming up with innovative ideas and strive to be the best in our field. Our primary focus is to ensure that our customers are satisfied, and we are committed to creating intelligent, eco-friendly technology. We aim to make a significant impact on the world through our inventions.

#### **Core Values INVERTEK**

At Invertek Energy, our core values serve as the pillars upon which our esteemed reputation and enduring success are built. These values are not just words to us; they are the principles that guide our every action, decision, and innovation. With a steadfast commitment to these ideals, we strive to provide superior products that not only meet but exceed the expectations of our global clientele. By embedding these values , Invertek Energy has distinguished itself as a leader in the energy sector, revered for its dedication to excellence, forward-thinking solutions, and an unwavering focus on customer satisfaction.



**Quality Excellence** Precision Engineering, Reliability Assurance



**Innovation** Sustainable Solutions, Continuous Creativity



Client-focused Service, Responsive Assistance



**Sustainability** Eco-conscious Practices, Sustainable Technology



**Integrity** Transparency, Honesty, Ethical Conduct

#### OUR INFRASTRUCTURE



#### R&D



QUALITY DEPARTMENT



**PRODUCTION LINE** 



#### CERTIFICATIONS







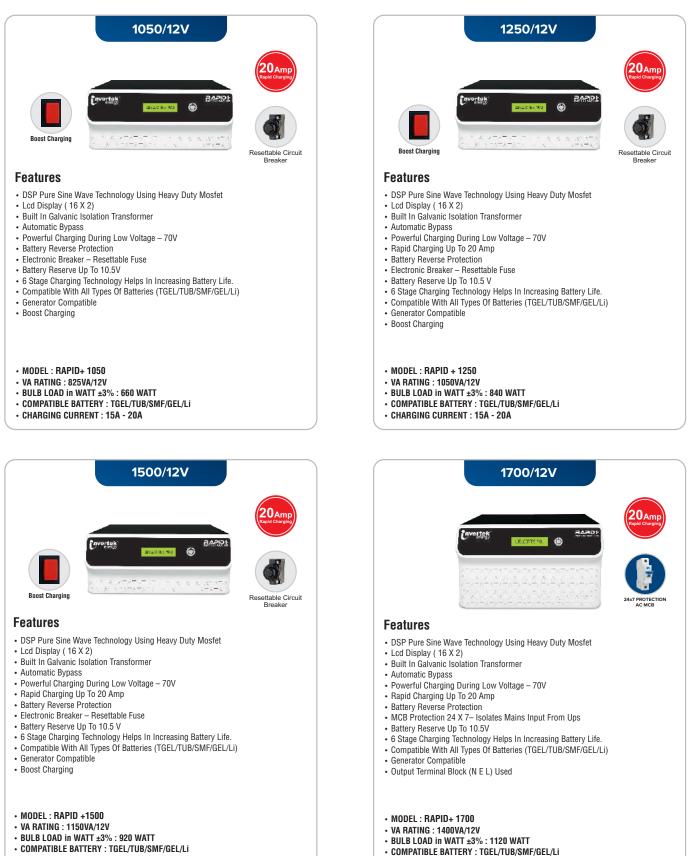




- Powerful Charging During Low Voltage 70V
- Battery Reverse Protection
- Electronic Breaker Resettable Fuse
- · Battery Reserve Up To 10.5V
- 6 Stage Charging Technology Helps In Increasing Battery Life.
- Compatible With All Types Of Batteries (TGEL/TUB/SMF/GEL/Li)
   Generator Compatible
- Boost Charging
- MODEL : RAPID+ 950
- VA RATING : 720VA/12V
- BULB LOAD in WATT ±3% : 575 WATT
- COMPATIBLE BATTERY : TGEL/TUB/SMF/GEL/Li
- CHARGING CURRENT : 15A-20A







CHARGING CURRENT : 15A - 20A

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• CHARGING CURRENT : 15A - 20A

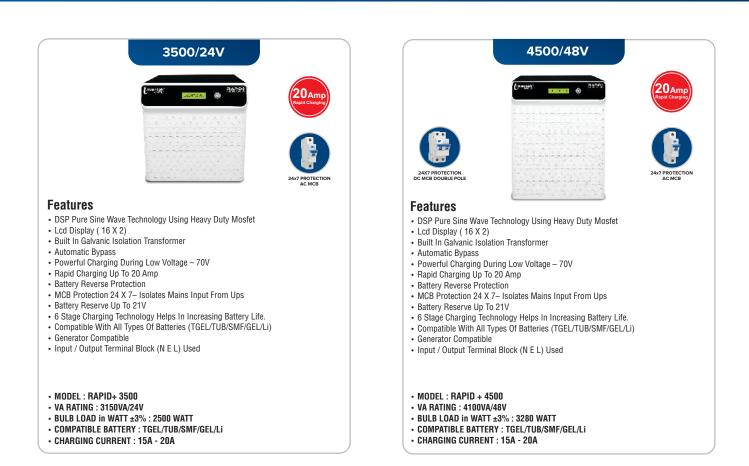














- · DSP Pure Sine Wave Technology Using Heavy Duty Mosfet
- Lcd Display (16 X 2)
- · Built In Galvanic Isolation Transformer
- Automatic Bypass
- Powerful Charging During Low Voltage 70V
- Rapid Charging Up To 20 Amp
- Battery Reverse Protection
- MCB Protection 24 X 7– Isolates Mains Input From Ups
- · Battery Reserve Up To 21V
- · 6 Stage Charging Technology Helps In Increasing Battery Life.
- · Compatible With All Types Of Batteries (TGEL/TUB/SMF/GEL/Li) · Generator Compatible
- · Input / Output Terminal Block (N E L) Used
- MODEL : RAPID+ 5500
- VA RATING : 5250VA/48V
- BULB LOAD in WATT ±3% : 4200 WATT
   COMPATIBLE BATTERY : TGEL/TUB/SMF/GEL/Li
- CHARGING CURRENT : 15A 20A



7500/48V

#### Features

- DSP Pure Sine Wave Technology Using Heavy Duty Mosfet
- Lcd Display (16 X 2)
- · Built In Galvanic Isolation Transformer
- · Automatic Bypass
- Powerful Charging During Low Voltage 70V
- Rapid Charging Up To 20 Amp
- · Battery Reverse Protection
- MCB Protection 24 X 7- Isolates Mains Input From Ups
- Battery Reserve Up To 42V
  6 Stage Charging Technology Helps In Increasing Battery Life.
- · Compatible With All Types Of Batteries (TGEL/TUB/SMF/GEL/Li)
- Generator Compatible
- · Input / Output Terminal Block (N E L) Used
- MODEL : RAPID+ 7500
- VA RATING :6750VA/48V
- BULB LOAD in WATT ±3% : 5400 WATT
- COMPATIBLE BATTERY : TGEL/TUB/SMF/GEL/Li
- CHARGING CURRENT : 15A 20A



#### **TECHNICAL SPECIFICATIONS**



MODEL	450 750 950 1050 1250 1350 1500 1700 2000	2000 2500	3000 3500	0 4500 5500 7500		
DC BUS	12V		24V	48V		
NO LOAD CURRENT		<1.2 A		<b>I</b>		
OUTPUT VOLTAGE @ NO LOAD	< 240VAC @12.0 VDC	< 240	/AC @24.0 VDC	< 240VAC @48.0 VDC		
BATTERY LOW ALARM	10.7 +/- 0.2V	2	1.4 +/- 0.4V	42.8 +/- 0.8V		
BATTERY LOW SHUTDOWN	10.5 +/- 0.2V	2	1.0 +/- 0.4V	42.0 +/- 0.8V		
SHORT CIRCUIT PROTECTION		YES		<b>!</b>		
INVERTER OUTPUT FREQUENCY	5	0 HZ +/- 0.1 Hz				
PARAMETERS		UPS MODE				
MAINS INPUT VOLATGE RANGE	17	70V TO 265 V				
MAINS AC LOW CUT	170	VAC +/- 10VAC				
MAINS AC LOW CUT RECOVERY	180	180VAC +/- 10VAC				
MAINS AC HIGH CUT	265	5VAC +/- 10VAC				
MAINS AC HIGH CUT RECOVERY	255	5VAC +/- 10VAC				
MAXIMUM CHANGE OVER TIME		< 8 msec				
PARAMETERS	w	IDE UPS MODE				
MAINS INPUT VOLATGE RANGE	c	0V TO 290 V				
MAINS AC LOW CUT	90	VAC +/- 10VAC				
AINS AC LOW CUT RECOVERY	110	VAC +/- 10VAC				
MAINS AC HIGH CUT	290	)VAC +/- 10VAC				
MAINS AC HIGH CUT RECOVERY	280	)VAC +/- 10VAC				
MAXIMUM CHANGE OVER TIME		< 18 msec				
PARAMETERS	СН	ARGING MODE				
CHARGING CURRENT @ 220V AC	8A 15A	15A-20A				
BOOST VOLATGE (TUBULAR MODE )	14.4V +/- 0.2V	28.8V	+/- 0.4V	57.6V +/- 0.8V		
BOOST VOLATGE (LEAD ACID MODE )	14.0V +/- 0.2V	28.0V +/- 0.4V		56.0V +/- 0.8V		
FLOAT VOLTAGE	13.6V +/- 0.2V	27.2V +/- 0.4V 54.4				
SHORT CIRCUIT		YES				
PROTECTIONS						
BATTERY LOW CUT OFF	1 TIME					
OVERLOAD (AUTO RETRIES)	4 TIME					
SHORT CIRCUIT (AUTO RETRIES)	3 TIME					
OVER TEMPERATURE	ЗТІМЕ					
BATTERY OVER CHARGE	YES					
NPUT PROTECTION	YES ( RESSETABLE FUSE ) YE	S (MAINS MCB TRIP IN	ICASE OF SHORT CIRCUIT	FIN MAINS MODE )		
ENVIRONMENT						
STORAGE TEMPERATURE		0 TO + 40 C				
OPERATING TEMPERATURE		0 TO + 40 C				
HUMIDITY	0-95%	NON-CONDENSNG				
ACOUSTIC NOISE (at 1 mts )	< 45dB from 1 METER					
PROTECTION GLASS	IP-20					

### **STATIC UPS**





#### Features

- Dsp Pure Sine wave Technology Using IGBT.
- Lcd Display (16 X 2) · Built In Galvanic Isolation Transformer
- · Cold Start
- Super Fast Settable Charging 20Amp
- Battery Reverse Protection
   Circuit Breaker MCB Protection 24 X 7 Isolates Mains Input From Ups
   Circuit Breaker MCB Protection 24 X 7 Isolates Mains Input From Ups Compatible With All Types Of Batteries (TGEL/TUB/SMF/GEL/Li)
- Generator Compatible
- Crest Factor 3:1
- · Input / Output Terminal Block (N E L) Used • Battery / DC MCB - Isolates Battery From Ups.
- Manual Bypass Rotary Type.
- MODEL : STATIC UPS 10KVA
- VA RATING : 10KVA/96V
  BULB LOAD in WATT ±3% : 8000 WATT
- COMPATIBLE BATTERY : TGEL/TUB/SMF/GEL/Li
- GRID CHARGING CURRENT : 20A





#### Features

- · Dsp Pure Sine wave Technology Using IGBT.
- Lcd Display (16 X 2)
  Built In Galvanic Isolation Transformer
- Cold Start
- Super Fast Settable Charging 20Amp
- Battery Reverse Protection
- Circuit Breaker MCB Protection 24 X 7 Isolates Mains Input From Ups
- · Compatible With All Types Of Batteries (TGEL/TUB/SMF/GEL/Li)
- Generator Compatible Crest Factor 3:1
- · Input / Output Terminal Block (N E L) Used Battery / DC MCB - Isolates Battery From Ups.
- Manual Bypass Rotary Type.
- MODEL : STATIC UPS 10KVA
- VA RATING : 10KVA/120V
- BULB LOAD in WATT ±3% : 8000 WATT
- COMPATIBLE BATTERY : TGEL/TUB/SMF/GEL/Li
- GRID CHARGING CURRENT : 20A











#### Features

- Dsp Pure Sine wave Solar PCU PWM Technology Using Heavy Duty Mosfet.
- · Intelligent Sharing Solar Priority To Save More Electricity.
- · Solar Preference Charging For Battery To Reduce The Power Used From Grid.
- Built In Solar Charge Controller 50 Amp
- Lcd Display (16 X 2)
- · Built In Galvanic Isolation Transformer
- Automatic Bypass
- Efficiency 85%
   Powerful Charging During Low Voltage– 70V
- Battery Reverse Protection
- Most Advance 32 Bit Microprocessor 3011
- Circuit Breaker MCB Protection 24 X 7 Isolates Mains Input From Ups
- · 6 Stage Charging Technology Helps In Increasing Battery Life.
- · Load Start Up 300% Of Rated Capacity
- · Compatible With All Types Of Batteries (TGEL/TUB/SMF/GEL/Li)
- Generator Compatible
- Crest Factor 3:1
- Input / Output Terminal Block (N E L) Used
- MODEL : SUN PRO 2050
- VA RATING : 1700/24V
- BULB LOAD in WATT ±3% : 1360WATT
- VOC : 58V
- SOLAR CHARGE CONTROLLER : 50 AMP
- MAX PV ARRAY : 1500W



#### Features

- Dsp Pure Sine wave Solar PCU PWM Technology Using Heavy Duty Mosfet.
- · Intelligent Sharing Solar Priority To Save More Electricity.
- · Solar Preference Charging For Battery To Reduce The Power Used From Grid.
- Built In Solar Charge Controller 70 Amp
- Lcd Display (16 X 2)
- · Built In Galvanic Isolation Transformer
- Automatic Bypass
- Efficiency 85%
   Powerful Charging During Low Voltage– 70V
- Battery Reverse Protection
- Most Advance 32 Bit Microprocessor 3011
- Circuit Breaker MCB Protection 24 X 7 Isolates Mains Input From Ups
- · 6 Stage Charging Technology Helps In Increasing Battery Life.
- · Load Start Up 300% Of Rated Capacity
- · Compatible With All Types Of Batteries (TGEL/TUB/SMF/GEL/Li)
- Generator Compatible
- Crest Factor 3:1
- Input / Output Terminal Block (N E L) Used
- MODEL : SUN PRO 2770
- VA RATING : 2300/24V
- BULB LOAD in WATT ±3% : 1850 WATT
- VOC : 58V
- SOLAR CHARGE CONTROLLER : 70 AMP
- MAX PV ARRAY : 2000W



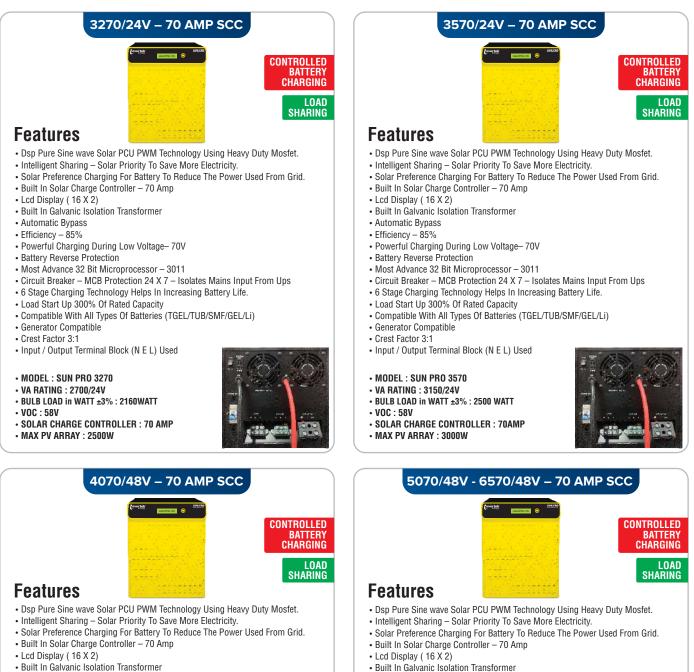
CONTROLLED

BATTERY CHARGING

LOAD Sharing

## SUN





- Built In Galvanic Isolation Transformer
- Automatic Bypass
- Efficiency 85%
- Powerful Charging During Low Voltage- 70V
- · Battery Reverse Protection
- Most Advance 32 Bit Microprocessor 3011
- Circuit Breaker MCB Protection 24 X 7 Isolates Mains Input From Ups
- · 6 Stage Charging Technology Helps In Increasing Battery Life.
- · Load Start Up 300% Of Rated Capacity
- Compatible With All Types Of Batteries (TGEL/TUB/SMF/GEL/Li)
- Generator Compatible
- Crest Factor 3:1
- · Input / Output Terminal Block (N E L) Used
- Battery / DC MCB ISOLATES BATTERY FROM UPS
- · Solar MCB Used
- MODEL : SUN PRO
- VA RATING : 4000/48V
- BULB LOAD in WATT ±3% : 3200 WATT
- VOC : 110V
- SOLAR CHARGE CONTROLLER : 70 AMP
- MAX PV ARRAY : 3500W



- MODEL : SUN PRO 5070/6570
- VA RATING : 5000/48V & 6500/48V
- BULB LOAD in WATT ±3% : 4200 WATT & 5200 WATT

Battery / DC MCB - ISOLATES BATTERY FROM UPS.

• Powerful Charging During Low Voltage- 70V

Most Advance 32 Bit Microprocessor - 3011

Load Start Up 300% Of Rated Capacity

· Input / Output Terminal Block (N E L) Used

Circuit Breaker - MCB Protection 24 X 7 - Isolates Mains Input From Ups

· 6 Stage Charging Technology Helps In Increasing Battery Life.

Compatible With All Types Of Batteries (TGEL/TUB/SMF/GEL/Li)

• VOC : 110V

Automatic Bypass

· Battery Reverse Protection

Generator Compatible

Crest Factor 3:1

Solar MCB Used

• Efficiency - 85%

- SOLAR CHARGE CONTROLLER : 70 AMP MAX PV ARRAY : 4000W & 4500W



#### **TECHNICAL SPECIFICATIONS**



				1				
Model	1230	1550	2050	2770	3270	3570	4070	5070 657
DC BUS	12	V			1V			48V
SCC TYPE				1	VM			
MAX PV CONNECTED IN WATT	600W / 28V	1000W/ 28V	1500W / 58V	2000W / 58V	2500W / 58V	3000W / 58V	3500W/110V	4000W/110V 4500W
MAX PV CURRENT in AMP	30 A	5	0A			70A		
lanins Input mode								
fains AC low cut UPS mode				170VAC	± 10VAC			
fains AC low cut recovery UPS mode				180VAC	± 10VAC			
lains AC high cut UPS mode				265VAC	± 10VAC			
Nains AC high cut recovery UPS mode				255VAC	± 10VAC			
fains AC low cut WUPS mode				90VAC	± 10VAC			
fains AC low cut recovery WUPS mode				110VAC	± 10VAC			
fains AC high cut WUPS mode				290VAC	± 10VAC			
fains AC high cut recovery WUPS mode				280VAC				
nput Frequency Range					o 60Hz			
/oltage Output in Mains Mode					as input			
requency Output in Mains Mode				Same	as input			
attery								
attery Type			1	LA / Tubu				
OC input voltage	1	12V		24	1V			48V
attery Quantity 12V 100Ah to 220Ah		1		:	2			4
loat charging voltage	13.7\	V±0.2V		27.4V	-/- 0.4V			54.8V +/- 0.8V
oost charging voltage for Tubular and SMF Battery	14.5	V±0.2V		29.0V	⊦/- 0.4V			58.0V +/- 0.8V
oost charging voltage for LA Battery	14.0	V±0.2V		28.0V	+/- 0.4V			56.0V +/- 0.8V
attery deep Discharge Recovery			Yes (Indep	endent Charger to R	ecover Deep Disch	narge Battery)		
attery High Cut	15.0	±0.2V		30.0 +	/- 0.4V			60.0 +/- 0.8V
harging Current			•		20A ± 2A			
ackup Mode				opu				
utput voltage				220VAC +5% -10% (u	atill batten: low ala	rm)		
utput frequency	<u> </u>				0.2 Hz			
utput waveform					ive ≤ 5% THD			
o Load current					ed capacity			
ow Battery Warning	10.7\	V±0.2V		21.4V +	-/- 0.4V		4	42.8V +/- 0.8V
ow Battery Cut	10.5	V±0.2V		21.0V +	-/- 0.4V		4	12.0V +/- 0.8V
hange over time UPS mode				< 10	msec			
hange over time WUPS mode				< 25	msec			
rest Factor				1	5			
eak Efficiency								
				86	5%			
			>120%	<100% Load to <120% Load, Sys 5 to <140% Load, Sys	Continuously run tem will shut dov tem will shut dov	vn in 1min		
Protections Overload in backup mode			>120% >140% >160% >180%	<100% Load to <120% Load, Sys	Continuously run item will shut dov item will shut dow iem will shut dow tem will shut dow	vn in 1min n in 17sec vn in 6sec vn in 3sec		
Overload in backup mode			>120% >140% >160% >180% >20	<100% Load to <120% Load, Sys 5 to <140% Load, Sys to <160% Load, Sys to <180% Load, Sys to <200% Load, Sys	Continuously run tem will shut dov tem will shut dow tem will shut dow tem will shut dow tem will shut dow il shut down in 85	vn in 1min n in 17sec vn in 6sec vn in 3sec 50msec		
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Overload in backup mode ihort Circut in Backup Mode ihort Circut in Mains Mode		Mains Fuse Blow	>120% >140% >160% >180% >20 System will : n	<100% Load to <120% Load, Sys to <140% Load, Sys to <160% Load, Sys to <180% Load, Sys to <200% Load, System wi shutdown after 3 - ret	Continuously run tem will shut dow tem will shut dow tem will shut dow tem will shut dow tem will shut dow it shut down in 85 ries in case of out	vn in 1min n in 17sec vn in 6sec vn in 3sec 50msec put short circuit Mains MCB Trip	2	
Overload in backup mode short Circut in Backup Mode short Circut in Mains Mode Backfeed		Mains Fuse Blow	>120% >140% >160% >200 System will 'n System will	<100% Load to <120% Load, Sys 5 to <140% Load, Sys to <160% Load, Sys to <200% Load, Sys to <200% Load, Sys 0% Load, System wi shutdown after 3 - ref	Continuously run tem will shut dow tem will shut dow tem will shut dow tem will shut dow tem will shut dow Il shut down in 85 rries in case of out f backfeed and the	vn in 1min n in 17sec vn in 6sec somsec put short circuit Mains MCB Trip ere is no retry		
Overload in backup mode ihort Circut in Backup Mode ihort Circut in Mains Mode lackfeed Over tempature		Mains Fuse Blow	>120% >140% >160% >200 System will 'n System will	<100% Load to <120% Load, Sys 5 to <140% Load, Sys to <160% Load, Sys to <280% Load, Sys to <280% Load, Sys 0% Load, System wi shutdown after 3 - ref ill shutdown in case o reatsink tempature go	Continuously run item will shut dow tem will shut dow tem will shut dow tem will shut dow tem will shut dow ill shut down in 85 rries in case of out f backfeed and the res above 100°C S	vn in 1min n in 17sec vn in 6sec somsec put short circuit Mains MCB Trip ere is no retry		
Overload in backup mode ihort Circut in Backup Mode ihort Circut in Mains Mode iackfeed Over tempature ieverse Battery		Mains Fuse Blow	>120% >140% >160% >200 System will 'n System will	<100% Load to <120% Load, Sys to <160% Load, Sys to <160% Load, Sys to <180% Load, Sys to <200% Load, System wi shutdown after 3 - ret ill shutdown in case of the statisk tempature of the statisk tempature of the statisk tempature of the statisk	Continuously run tem will shut dow tem will shut dow tem will shut dow tem will shut dow Il shut down in 85 rries in case of out f backfeed and the res above 100°C S <i>i</i> ll belown	vn in 1min n in 17sec vn in 6sec somsec put short circuit Mains MCB Trip ere is no retry		
Overload in backup mode hort Circut in Backup Mode hort Circut in Mains Mode sackfeed over tempature everse Battery hase to Phase protection in mains mode		Mains Fuse Blow	>120% >140% >160% >200 System will 'n System will	<100% Load to <120% Load, Sys to <160% Load, Sys to <160% Load, Sys to <180% Load, Sys to <200% Load, System wi shutdown after 3 - ret ill shutdown in case of the statisk tempature of the statisk tempature of the statisk tempature of the statisk	Continuously run item will shut dow tem will shut dow tem will shut dow tem will shut dow tem will shut dow ill shut down in 85 rries in case of out f backfeed and the res above 100°C S	vn in 1min n in 17sec vn in 6sec somsec put short circuit Mains MCB Trip ere is no retry		
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verload in backup mode hort Circut in Backup Mode hort Circut in Mains Mode ackfeed ver tempature everse Battery hase to Phase protection in mains mode olar Charge Controller olar Charge Controller type ficiency			>120% >140% >160% >80% >200 System will System will Yes provided, if h	<100% Load to <120% Load, Sys to <140% Load, Sys to <160% Load, Sys to <180% Load, Sys to <200% Load, System wi shutdown after 3 - rei ill shutdown in case o reatsink tempature go DC fuse v Yes provided PWM > 5	Continuously run tem will shut dow tem will shut dow tem will shut dow tem will shut dow tem will shut down in 85 riles in case of out f backfeed and the res above 100°C S vill belown by electronic	vn in fmin n in 17sec vn in 6sec 50msec 50msec Mains MCB Trip ere is no retry ystem will shut dow	'n	
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werload in backup mode         hort Circut in Backup Mode         hort Circut in Mains Mode         ackfeed         wer tempature         everse Battery         hase to Phase protection in mains mode         olar Charge Controller         olar Charge Controller officiency         lains Charging Shairing         baad Shairing         uption for Solar Mode & Normal Mode         00% Solar Priority & Solar Utilization         evrse PV protection         evrse current flow to PV         visplay and Alarms         CD Initial Display         CD Status Display         CD Fault / Protection Status Display         uzzer         afety         V Test Input to Earth         V Test Output to Earth         V Test Uput to Earth         R Test Output to Earth </td <td>If Io. 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'om solar. ' 'ity Selected 100-135AI UPS ON, UPS OFF, Bat</td>	If Io. Yes, prov N	If PV power is no g is provided, solar ad is 0% then it wil vided, user can sele Solar Mode: Sy lormal Mode: Syste Welcome, I UPS / WUPS mode Voltage, Input Freq Mains	>120% >140% >160% >180% >200 System will m System will Yes provided, if h will deliver the pow protect the battery ext Solar Mode or No restem will run the 100% statem will run the 100% S Contect Website Ad , I/P range 90-295V uency, Battery Volta Wains Low Cut, Fuse Belown / MCE for Overload, Short C	<100% Load to <120% Load, Sys to <160% Load, Sys to <160% Load, Sys to <160% Load, Sys to <200% Load, Sys to <200% Load, System wi shutdown after 3 - ref lishutdown after 3 - ref DC fuse v DC fuse v Yes provided PWW > 2 to charge the battery, ter as per load and ba for over charging and ormal Mode. Hense u O% load on solar who load on solar who load on solar during tystem is utilizing 100 Yes pr Yes pr Gress, System Capac AC / 170-265VAC, Ba 150-2 Ige, Battery Charging age, Load % Output V Mains High Cut, Maii 3 Trip, Short Circuit, O Circuit, Backfeed, Low ×age current <5mA w ×55MD betwe < 2 c c c c c c c c c c c c c c c c c c c	Continuously run item will shut dow tem will shut dow tem will shut dow tem will shut dow tem will shut dow I shut down in 85 rries in case of out f backfeed and the sabove 100°C S vill belown by electronic I type 6% system will start si ttery requirement. d increase the batt ser can select to el days (9: Ah to 4 peak hours (10:AM % solar power avai ovided ovided ovided ty, Charging Till 84 ttert Type Selected 00Ah, Battery Charged, Verload, Battery Lo verload, Battery Lo verload, Battery Lo verload, Battery Lo verload, Battery Lo verload, Battery Lo verload, Battery Lo source m © 500VDC m @ 500VDC 5mA 5mA	vn in fmin n in 17sec vn in 6sec 50msec 50msec put short circuit Mains MCB Trip ere is no retry ystem will shut dow haring battery charg Solar Current = Lo ery life deliver -18 <i>J</i> iave Maximum Pow (PM) and charge the to 3:PM) and charge the to 3:PM) and charge the to 3:PM) and charge the to 3:PM) and charge the to 3:PM and charge the to 4:PM and charge the to 5:PM	ging from PV ar ad Current + Ba A current for bal er or Smart Pow b battery from s ge the battery from scharge Battery r, Battery Capac Backup Mode, I it e, Backfeed	atter Charging Current ttery charging. ver saving mode. olar. 'om solar. ' 'ity Selected 100-135AI UPS ON, UPS OFF, Bat
Averload in backup mode hort Circut in Backup Mode hort Circut in Mains Mode iackfeed Aver tempature everse Battery hase to Phase protection in mains mode iolar Charge Controller olar Charge	If Io. Yes, prov N	If PV power is no g is provided, solar ad is 0% then it wil vided, user can sele Solar Mode: Sy lormal Mode: Syste Welcome, I UPS / WUPS mode Voltage, Input Freq Mains	>120% >140% >160% >180% >200 System will m System will Yes provided, if h will deliver the pow protect the battery ext Solar Mode or No restem will run the 100% statem will run the 100% S Contect Website Ad , I/P range 90-295V uency, Battery Volta Wains Low Cut, Fuse Belown / MCE for Overload, Short C	<100% Load to <120% Load, Sys 5 to <140% Load, Sys to <160% Load, Sys to <160% Load, Sys to <180% Load, Sys to <200% Load, System wi shutdown after 3 - ret ill shutdown in case of peatsink tempature of eastsink tempature of pot fuse v Yes provided PWW > 2 to charge the battery, ter as per load and ba for over charging an ormal Mode. Hense u O% load on solar who load on solar during system is utilizing 100 Yes pr Yes pr dress, System Capac AC / 170-265VAC, Ba dress, System Capac AC / 170-265VAC, Ba 150-2 ge, Battery Charging age, Load %, Output N Mains High Cut, Maii 3 Trip, Short Circuit, O Circuit, Backfeed, Low <age <5ma="" current="" w<br=""><age <5ma="" current="" w<br=""></age></age></age></age></age></age></age></age></age></age></age></age></age></age></age></age></age></age></age></age></age></age></age></age></age></age></age></age></age></age></age></age></age></age></age></age></age></age></age></age></age></age></age>	Continuously run tem will shut dow tem will shut dow tem will shut dow tem will shut dow tem will shut dow len will shut dow Il shut down in 85 rites in case of out f backfeed and the tes above 100°C S vill belown by electronic ltype 6% system will start si ttery requirement. d increase the batt ser can select to S le days (9:2M to 4 peak hours (10:2M % solar power avai ovided ovided ty, Charging Till 80 tert Type Selected 00Ah, Battery Charged, Voltage, Output Fre ts Not Available, M verload, Battery Lor Pattery, Over Tem hen 1.5KV applied en @ 500VDC ma 500VDC 5mA 5mA	vn in fmin n in 17sec vn in 6sec 50msec 50msec put short circuit Mains MCB Trip ere is no retry ystem will shut dow haring battery charg Solar Current = Lo ery life deliver -18 <i>J</i> iave Maximum Pow (PM) and charge the to 3:PM) and charge the to 3:PM) and charge the to 3:PM) and charge the to 3:PM) and charge the to 3:PM and charge the to 4:PM and charge the to 5:PM	ging from PV ar ad Current + Ba A current for bal er or Smart Pow b battery from s ge the battery from scharge Battery r, Battery Capac Backup Mode, I it e, Backfeed	atter Charging Current ttery charging. ver saving mode. olar. 'om solar. ' 'ity Selected 100-135AI UPS ON, UPS OFF, Bat







#### **Features**

- DSP Pure Sine wave Solar PCU MPPT Technology Using Heavy Duty IGBT Based.
- Intelligent Sharing Solar Priority To Save More Electricity.
- Solar Preference Charging For Battery To Reduce The Power Used From Grid.
- Built In Solar Charge Controller 100 Amp
- · Built In Galvanic Isolation Transformer
- · Active Front End Charger
- Low Input Current Distortion
- Efficiency 90%
- Can Be Upgraded To Grid Export Hybrid PCU at Any Time.(Optional)
- MCB AC , DC , Solar Used
   Manual Bypass Rotary Type
- Lcd Display (16 X 2)



#### **Features**

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   Manual Bypass Rotary Type







_	INVERTER RATING (KVA)	5KVA	10KVA	
A. 5	OLAR CHARGE CONTROLLER (SCC)			
1	Charger Type & Topology	Buck Type MPPT		
2	PV Total Nominal Capacity (KVA)	5KW	10KW	
3	No. of MPPT Channels	1	1	
4	Per Channel PV Capacity (w) (Nominal Peak)	5KW/5.5KW	10KW/11KW	
5	Max. Open Circuit PV Volts (Voc)	240	400	
6	MPPT Voltage Range (Volts)	96-300	140-400	
7	PV Minimum Voltage (Volts)	48	96V/120	
8	Max. I/P Amps Per Channel (Amps)	75	60	
9	Max. Battery Amps during PV Charging (Amps)	100	80	
10	Battery type supported	VRLA / LMLA / Li-Ion/Li-Ph (User Settable)		
11	Min. Battery AH (Suggested)	150	150	
B. Se	blar Inverter			
1	No. of Phase/Connection Type	1-Phased /2 wire		
2	Nominal battery voltage (Volts)	48	96/120	
3	Battery Ripple	5% for VRLA & LMLA/1% for Li-	-Lon/Li-Ph (User Settable)	
4	Nominal Output Voltage/Frequency (Votls/Hz)	230/50		
5	Nominal KVA Capacity ( KVA)	5KVA	10KVA	
6	Output Amps	17.39	34.78	
7	Voltage Regulations( In Standalore Mode)	17.39	34.78	
8	Freq. Regulation (in Standalore Mode)	±2%		
9	THD	±0.5Hz		
10	Load Power Factor	<3%		
11	Effiancy(%) Peak/ 100% Load /25% Load	0.8 Lag to Unity		
12	Over Loads:	110-125% - 30 Sec		
13	Max Allowed Phase Imbalance(%)	N/A		
14	Auto Bypass Feature	Provided		
C. G	RID CHARGER			
1	Grid Voltage Range (Voltage Sync. Range )	160V-280V (Ph	ase to Nutral)	
2	Grid Frequency Range (Voltage Sync. Range)	50Hz :	±5%	
3	Max Grid Import Power (KVA)	5604	10KVA	
4	Max Battery Amps During Grid Charging (Amps)	68	54	
5	Peak Charging Efficiency (%)	>8	7	
INV	ERTER (KW)	4	8	
1	PV Side	Reverse Polarity,	Surg Protection	
2	Battery Side	Reverse Polarity, Over/Und	er Voltage, Current Limit	
3	Grid Side	Over/Under Voltage, Over/Under Frequ	ency, Anti-Islanding, Surg Protection	
4	Load Side	Overloads, St		
5	System Protection		s at all Inputs, Emergency stop	
	System Protection	over remperature mp, breakers		
	SER INTERFACE			
1	SER INTERFACE DISPLAY INTERFACE	LCD NUMERIC		
1 2	SER INTERFACE DISPLAY INTERFACE DISPLAYED PARAMETERS	LCD NUMERIC VRLA / LMLA/ Li-lon/L	i-Ph (User Suitable)	
1 2 1	SER INTERFACE DISPLAY INTERFACE DISPLAYED PARAMETERS Battery Parameters	LCD NUMERIC VRLA / LMLA/ Li-Ion/L Voltage, Charging Current, Discharging Current, AH- Charging State-Char	i-Ph (User Suitable) in AH-out, Cumulative AH-in, Cumulative AH-out, ging/Discharging	
1 2 1 2	SER INTERFACE DISPLAY INTERFACE DISPLAYED PARAMETERS Battery Parameters PV Parameters	LCD NUMERIC VRLA / LMLA/ Li-Ion/L Voltage, Charging Current, Discharging Current, AH- Charging State-Char Voltage ,Current , Power, Cur	i-Ph (User Suitable) in AH-out, Cumulative AH-in, Cumulative AH-out, ging/Discharging nulative, Today Generation	
1 2 1 2 3	SER INTERFACE DISPLAY INTERFACE DISPLAYED PARAMETERS Battery Parameters PV Parameters Grid Parameters	LCD NUMERIC VRLA / LMLA/ Li-Ion/L Voltage, Charging Current, Discharging Current, AH- Charging State-Char Voltage ,Current , Power, Cur Voltage ,Current , Frequency, Import Powe	i-Ph (User Suitable) in AH-out, Cumulative AH-in, Cumulative AH-out, ging/Discharging nulative, Today Generation r, Import Cumulative, Today Generation	
1 2 2 3 4	SER INTERFACE DISPLAY INTERFACE DISPLAYED PARAMETERS Battery Parameters PV Parameters Grid Parameters Load Parameters	LCD NUMERIC VRLA / LMLA/ Li-Ion/L Voltage, Charging Current, Discharging Current, AH- Charging State-Char Voltage, Current, Power, Cur Voltage, Current, Frequency, Import Powe Voltage, Current, Frequency, Pow	i-Ph (User Suitable) in AH-out, Cumulative AH-in, Cumulative AH-out, ging/Discharging nulative, Today Generation r, Import Cumulative, Today Generation ver, Cumulative, Power Factor	
1 2 3 4 5	SER INTERFACE DISPLAY INTERFACE DISPLAYED PARAMETERS Battery Parameters PV Parameters Grid Parameters Load Parameters Data Logging	LCD NUMERIC VRLA / LMLA/ Li-Ion/L Voltage, Charging Current, Discharging Current, AH- Charging State-Char Voltage, Current, Frequency, Import Powe Voltage, Current, Frequency, Import Powe Voltage, Current, Frequency, Pow 90 Days PV Generation, Imp	i-Ph (User Suitable) in AH-out, Cumulative AH-in, Cumulative AH-out, ging/Discharging nulative, Today Generation r, Import Cumulative, Today Generation ver, Cumulative, Power Factor port Energy, Load Energy.	
1 2 3 4 5 6	SER INTERFACE DISPLAY INTERFACE DISPLAYED PARAMETERS Battery Parameters PV Parameters Grid Parameters Load Parameters Data Logging System Level	LCD NUMERIC VRLA / LMLA/ Li-Ion/L Voltage, Charging Current, Discharging Current, AH- Charging State-Char Voltage, Current, Power, Cur Voltage, Current, Frequency, Import Powe Voltage, Current, Frequency, Pow	i-Ph (User Suitable) in AH-out, Cumulative AH-in, Cumulative AH-out, ging/Discharging nulative, Today Generation r, Import Cumulative, Today Generation ver, Cumulative, Power Factor port Energy, Load Energy.	
1 2 3 4 5 6 3	SER INTERFACE DISPLAY INTERFACE DISPLAYED PARAMETERS Battery Parameters PV Parameters Grid Parameters Load Parameters Data Logging System Level INDICATION/ PROTECTION	LCD NUMERIC VRLA / LMLA/ Li-Ion/L Voltage, Charging Current, Discharging Current, AH- Charging State-Char Voltage, Current, Frequency, Import Power Voltage, Current, Frequency, Import Powe Voltage, Current, Frequency, Pow 90 Days PV Generation, Imp Faults and V	i-Ph (User Suitable) in AH-out, Cumulative AH-in, Cumulative AH-out, ging/Discharging mulative, Today Generation r, Import Cumulative, Today Generation ver, Cumulative, Power Factor port Energy, Load Energy. Namings	
1 2 3 4 5 6 3 1	SER INTERFACE DISPLAY INTERFACE DISPLAYED PARAMETERS Battery Parameters PV Parameters Grid Parameters Load Parameters Data Logging System Level INDICATION/ PROTECTION LED Indication:	LCD NUMERIC VRLA / LMLA/ Li-Ion/L Voltage, Charging Current, Discharging Current, AH- Charging State-Char Voltage, Current, Frequency, Import Powe Voltage, Current, Frequency, Import Powe Voltage, Current, Frequency, Pow 90 Days PV Generation, Imp Faults and V Power On, PV Available, PV Charging Inverter On, G	i-Ph (User Suitable) in AH-out, Cumulative AH-in, Cumulative AH-out, ging/Discharging mulative, Today Generation r, Import Cumulative, Today Generation ver, Cumulative, Power Factor poort Energy, Load Energy. Warnings rid Import Mode , Fault, HYBRID/OFF GRID Mode	
1 1 2 3 4 5 6 3 1 2	SER INTERFACE DISPLAY INTERFACE DISPLAYED PARAMETERS Battery Parameters PV Parameters Grid Parameters Load Parameters Data Logging System Level INDICATION/ PROTECTION LED Indication: User Keypad for Settings Changes	LCD NUMERIC VRLA / LMLA/ Li-Ion/L Voltage, Charging Current, Discharging Current, Al- Charging State-Char Voltage, Current, Frequency, Import Powe Voltage, Current, Frequency, Import Powe Voltage, Current, Frequency, Pow 90 Days PV Generation, Imp Faults and V Power On, PV Available, PV Charging Inverter On, G Keypad for Se	i-Ph (User Suitable) in AH-out, Cumulative AH-in, Cumulative AH-out, ging/Discharging mulative, Today Generation r, Import Cumulative, Today Generation ver, Cumulative, Power Factor poort Energy, Load Energy. Warnings rid Import Mode , Fault, HYBRID/OFF GRID Mode ttings Input	
1 2 3 4 5 6 3 1 2 3 3	SER INTERFACE DISPLAY INTERFACE DISPLAYED PARAMETERS Battery Parameters PV Parameters Grid Parameters Load Parameters Data Logging System Level INDICATION/ PROTECTION LED Indication: User Keypad for Settings Changes Breakers at all Inputs/Space Heater/Emergency stop Button	LCD NUMERIC VRLA / LMLA/ Li-Ion/L Voltage, Charging Current, Discharging Current, AH- Charging State-Char Voltage, Current, Frequency, Import Powe Voltage, Current, Frequency, Import Powe Voltage, Current, Frequency, Pow 90 Days PV Generation, Imp Faults and V Power On, PV Available, PV Charging Inverter On, G Keypad for Se Provid	i-Ph (User Suitable) in AH-out, Cumulative AH-in, Cumulative AH-out, ging/Discharging mulative, Today Generation r, Import Cumulative, Today Generation ver, Cumulative, Power Factor poort Energy, Load Energy. Warnings rid Import Mode , Fault, HYBRID/OFF GRID Mode ttings Input Jed	
1 2 3 4 5 6 3 1 2 3 4 3 4	SER INTERFACE DISPLAY INTERFACE DISPLAYED PARAMETERS Battery Parameters PV Parameters Grid Parameters Load Parameters Data Logging System Level INDICATION/ PROTECTION LED Indication: User Keypad for Settings Changes Breakers at all Inputs/Space Heater/Emergency stop Button Over Shoot due to misbehaviour of BHMS	LCD NUMERIC VRLA / LMLA/ Li-lon/L Voltage, Charging Current, Discharging Current, AH- Charging State-Char Voltage, Current, Dever, Cur Voltage, Current, Frequency, Import Powe Voltage, Current, Frequency, Pow 90 Days PV Generation, Imp Faults and N Power On, PV Available, PV Charging Inverter On, G Keypad for Se Provid	i-Ph (User Suitable) in AH-out, Cumulative AH-in, Cumulative AH-out, ging/Discharging mulative, Today Generation r, Import Cumulative, Today Generation ver, Cumulative, Power Factor poort Energy, Load Energy. Wamings rid Import Mode , Fault, HYBRID/OFF GRID Mode ttings Input ded ded	
1 2 3 4 5 6 3 1 2 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	SER INTERFACE DISPLAY INTERFACE DISPLAYED PARAMETERS Battery Parameters PV Parameters Grid Parameters Load Parameters Data Logging System Level INDICATION/ PROTECTION LED Indication: User Keypad for Settings Changes Breakers at all Inputs/Space Heater/Emergency stop Button Over Shoot due to misbehaviour of BHMS Remote Monitoring: Optional*	LCD NUMERIC VRLA / LMLA/ Li-lon/L Voltage, Charging Current, Discharging Current, AH- Charging State-Char Voltage, Current, Discharging State-Char Voltage, Current, Frequency, Import Powe Voltage, Current, Frequency, Pow 90 Days PV Generation, Imp Faults and N Power On, PV Available, PV Charging Inverter On, G Keypad for Se Provid Provid	i-Ph (User Suitable) in AH-out, Cumulative AH-in, Cumulative AH-out, ging/Discharging mulative, Today Generation r, Import Cumulative, Today Generation wer, Cumulative, Power Factor poort Energy, Load Energy. Wamings rid Import Mode , Fault, HYBRID/OFF GRID Mode ttings Input ded ded h (GPRS Optional)	
1 2 3 4 5 6 3 1 2 2 3 4 5 5 4 5 4	SER INTERFACE DISPLAY INTERFACE DISPLAYED PARAMETERS Battery Parameters PV Parameters Grid Parameters Load Parameters Data Logging System Level INDICATION/ PROTECTION LED Indication: User Keypad for Settings Changes Breakers at all Inputs/Space Heater/Emergency stop Button Over Shoot due to misbehaviour of BHMS Remote Monitoring: Optional* DESIGNED & MANUFACTURED THE PRODUCT AS FOR IEC	LCD NUMERIC VRLA / LMLA/ Li-lon/L Voltage, Charging Current, Discharging Current, AH- Charging State-Char Voltage, Current, Dever, Cur Voltage, Current, Frequency, Import Powe Voltage, Current, Frequency, Pow 90 Days PV Generation, Imp Faults and N Power On, PV Available, PV Charging Inverter On, G Keypad for Se Provid	i-Ph (User Suitable) in AH-out, Cumulative AH-in, Cumulative AH-out, ging/Discharging mulative, Today Generation r, Import Cumulative, Today Generation wer, Cumulative, Power Factor poort Energy, Load Energy. Wamings rid Import Mode , Fault, HYBRID/OFF GRID Mode titings Input ded ded h (GPRS Optional)	
1 2 3 4 5 6 3 1 2 3 3 4 5 5 4 1 2 2 3 4 1 2 2 3 4 1 2 3 4 1 2 3 4 1 2 3 3 4 1 2 3 3 4 4 3 3 3 4 3 3 4 4 3 3 3 4 4 3 3 3 4 4 3 3 3 3 4 4 3 3 3 3 3 4 4 3	SER INTERFACE DISPLAY INTERFACE DISPLAYED PARAMETERS Battery Parameters PV Parameters Grid Parameters Load Parameters Load Parameters Data Logging System Level INDICATION/ PROTECTION LED Indication: User Keypad for Settings Changes Breakers at all Inputs/Space Heater/Emergency stop Button Over Shoot due to misbehaviour of BHMS Remote Monitoring: Optional* DESIGNED & MANUFACTURED THE PRODUCT AS FOR IEC MISCELLANEOUS	LCD NUMERIC VRLA / LMLA/ Li-lon/L Voltage, Charging Current, Discharging Current, AH- Charging State-Char Voltage, Current, Dewer, Curr Voltage, Current, Frequency, Import Power Voltage, Current, Frequency, Pow 90 Days PV Generation, Imp Faults and V Power On, PV Available, PV Charging Inverter On, G Keypad for Se Provic Provic Data Monitoring throug Tested as per IEC 61683,IEC61727,E	i-Ph (User Suitable) in AH-out, Cumulative AH-in, Cumulative AH-out, ging/Discharging mulative, Today Generation r, Import Cumulative, Today Generation wer, Cumulative, Power Factor poort Energy, Load Energy. Warnings rid Import Mode , Fault, HYBRID/OFF GRID Mode titings Input ded ded h (GPRS Optional) NS0530 and IEC60068 (1,2,14,30).	
1 2 3 4 5 6 6 3 1 2 3 4 5 5 4 1 2 2 3 4 1 2	SER INTERFACE DISPLAY INTERFACE DISPLAYED PARAMETERS Battery Parameters PV Parameters Grid Parameters Load Parameters Data Logging System Level INDICATION/ PROTECTION LED Indication: User Keypad for Settings Changes Breakers at all Inputs/Space Heater/Emergency stop Button Over Shoot due to misbehaviour of BHMS Remote Monitoring: Optional* DESIGNED & MANUFACTURED THE PRODUCT AS FOR IEC MISCELLANEOUS Degree of Protection	LCD NUMERIC VRLA / LMLA/ Li-lon/L Voltage, Charging Current, Discharging Current, AH- Charging State-Char Voltage, Current, Dewer, Curr Voltage, Current, Frequency, Import Power Voltage, Current, Frequency, Pow 90 Days PV Generation, Imp Faults and V Power On, PV Available, PV Charging Inverter On, G Keypad for Se Provid Provid Data Monitoring throug Tested as per IEC 61683,IEC61727,El	i-Ph (User Suitable) in AH-out, Cumulative AH-in, Cumulative AH-out, ging/Discharging mulative, Today Generation r, Import Cumulative, Today Generation wer, Cumulative, Power Factor poort Energy, Load Energy. Warnings rid Import Mode , Fault, HYBRID/OFF GRID Mode titings Input ded ded h (GPRS Optional) NS0530 and IEC60068 (1,2,14,30).	
1 2 3 4 5 6 3 1 2 3 3 4 5 5 4 1 2 2 3 3 4 5 5 4 1 2 2 3	SER INTERFACE DISPLAY INTERFACE DISPLAYED PARAMETERS Battery Parameters PV Parameters Grid Parameters Load Parameters Data Logging System Level INDICATION/ PROTECTION LED Indication: User Keypad for Settings Changes Breakers at all Inputs/Space Heater/Emergency stop Button Over Shoot due to misbehaviour of BHMS Remote Monitoring: Optional* DESIGNED & MANUFACTURED THE PRODUCT AS FOR IEC MISCELLANEOUS Degree of Protection Cooling Method	LCD NUMERIC VRLA / LMLA/ Li-lon/L Voltage, Charging Current, Discharging Current, AH- Charging State-Char Voltage, Current, Dewer, Curr Voltage, Current, Frequency, Import Powe Voltage, Current, Frequency, Pow 90 Days PV Generation, Imp Faults and N Power On, PV Available, PV Charging Inverter On, G Power On, PV Available, PV Charging Inverter On, G Provid Provid Data Monitoring throug Tested as per IEC 61683,IEC61727,EI	i-Ph (User Suitable) in AH-out, Cumulative AH-in, Cumulative AH-out, ging/Discharging nulative, Today Generation r, Import Cumulative, Today Generation ver, Cumulative, Power Factor boot Energy, Load Energy. Wamings rid Import Mode , Fault, HYBRID/OFF GRID Mode titings Input ded ded ded if (GPRS Optional) NS0530 and IEC60068 (1,2,14,30). I Force Cooling	
1 2 3 4 5 6 3 1 2 3 4 5 4 5 4 1 2 3 4 5 5 4 3 4 5 5 6 3 1 2 3 3 4 5 5 6 6 3 3 1 2 3 3 4 5 5 6 6 6 7 3 8 7 8 7 8 8 8 8 8 8 8 8 8 8 8 8 8	SER INTERFACE DISPLAY INTERFACE DISPLAYED PARAMETERS Battery Parameters PV Parameters Grid Parameters Load Parameters Load Parameters Data Logging System Level INDICATION/ PROTECTION LED Indication: User Keypad for Settings Changes Breakers at all Inputs/Space Heater/Emergency stop Button Over Shoot due to misbehaviour of BHMS Remote Monitoring: Optional* DESIGNED & MANUFACTURED THE PRODUCT AS FOR IEC MISCELLANEOUS Degree of Protection Cooling Method Operating Temperature	LCD NUMERIC VRLA / LMLA/ Li-lon/L Voltage, Charging Current, Discharging Current, AH- Charging State-Char Voltage, Current, Dewer, Curr Voltage, Current, Frequency, Import Powe Voltage, Current, Frequency, Pow 90 Days PV Generation, Imp Faults and N Power On, PV Available, PV Charging Inverter On, G Power On, PV Available, PV Charging Inverter On, G Provid Provid Data Monitoring throug Tested as per IEC 61683,IEC61727,EI IP3: Temp. Controlled	i-Ph (User Suitable) in AH-out, Cumulative AH-in, Cumulative AH-out, ging/Discharging mulative, Today Generation r, Import Cumulative, Today Generation ver, Cumulative, Power Factor poort Energy, Load Energy. Wamings rid Import Mode , Fault, HYBRID/OFF GRID Mode ttings Input ded ded gh (GPRS Optional) NS0530 and IEC60068 (1,2,14,30). 1 Force Cooling t Operation	
1 2 3 4 5 6 3 1 2 3 4 5 5 4 1 2 3 4 5 5 4 5 5	SER INTERFACE DISPLAY INTERFACE DISPLAYED PARAMETERS Battery Parameters PV Parameters Grid Parameters Load Parameters Data Logging System Level INDICATION/ PROTECTION LED Indication: User Keypad for Settings Changes Breakers at all Inputs/Space Heater/Emergency stop Button Over Shoot due to misbehaviour of BHMS Remote Monitoring: Optional* DESIGNED & MANUFACTURED THE PRODUCT AS FOR IEC MISCELLANEOUS Degree of Protection Cooling Method Operating Temperature Humidity (Non-condensign)	LCD NUMERIC VRLA / LMLA/ Li-lon/L Voltage, Charging Current, Discharging Current, AH- Charging State-Char Voltage, Current, Dewer, Curr Voltage, Current, Frequency, Import Powe Voltage, Current, Frequency, Pow 90 Days PV Generation, Imp Faults and V 90 Days PV Generation, Imp Faults an	i-Ph (User Suitable) in AH-out, Cumulative AH-in, Cumulative AH-out, ging/Discharging nulative, Today Generation r, Import Cumulative, Today Generation ver, Cumulative, Power Factor boort Energy, Load Energy. Wamings rid Import Mode , Fault, HYBRID/OFF GRID Mode ttings Input ded ded ded lef I Force Cooling t Operation Condensing	
1 2 3 4 5 6 6 3 1 2 3 4 5 5 4 1 2 3 4 5 3 4 5 5 6 6 5 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7	SER INTERFACE DISPLAY INTERFACE DISPLAYED PARAMETERS Battery Parameters PV Parameters Grid Parameters Load Parameters Data Logging System Level INDICATION/ PROTECTION LED Indication: User Keypad for Settings Changes Breakers at all Inputs/Space Heater/Emergency stop Button Over Shoot due to misbehaviour of BHMS Remote Monitoring: Optional* DESIGNED & MANUFACTURED THE PRODUCT AS FOR IEC MISCELLANEOUS Degree of Protection Cooling Method Operating Temperature Humidity (Non-condensign) Altitude (above Sea level)	LCD NUMERIC VRLA / LMLA/ Li-lon/L Voltage, Charging Current, Discharging Current, AH- Charging State-Char Voltage, Current, Dewer, Curr Voltage, Current, Frequency, Import Powe Voltage, Current, Frequency, Pow 90 Days PV Generation, Imp Faults and N Power On, PV Available, PV Charging Inverter On, G Power On, PV Available, PV Charging Inverter On, G Provid Provid Data Monitoring throug Tested as per IEC 61683,IEC61727,EI IP33 Temp. Controlled 0-55C ambien Max. 95% Non-	i-Ph (User Suitable) in AH-out, Cumulative AH-in, Cumulative AH-out, ging/Discharging nulative, Today Generation r, Import Cumulative, Today Generation ver, Cumulative, Power Factor boot Energy, Load Energy. Wamings rid Import Mode , Fault, HYBRID/OFF GRID Mode ttings Input ded ded ded led I Force Cooling t Operation -Condensing e sea level	
1 2 3 4 5 6 3 1 2 3 4 5 5 4 1 2 3 4 4 5 5 4 1 2 3 4 5 5 6 6 7 7	SER INTERFACE DISPLAY INTERFACE DISPLAYED PARAMETERS Battery Parameters PV Parameters Grid Parameters Load Parameters Data Logging System Level INDICATION/ PROTECTION LED Indication: User Keypad for Settings Changes Breakers at all Inputs/Space Heater/Emergency stop Button Over Shoot due to misbehaviour of BHMS Remote Monitoring: Optional* DESIGNED & MANUFACTURED THE PRODUCT AS FOR IEC MISCELLANEOUS Degree of Protection Cooling Method Operating Temperature Humidity (Non-condensign) Altitude (above Sea level) Housing	LCD NUMERIC VRLA / LMLA/ Li-lon/L Voltage, Charging Current, Discharging Current, AH- Charging State-Char Voltage, Current, Dewer, Curr Voltage, Current, Frequency, Import Powe Voltage, Current, Frequency, Pow 90 Days PV Generation, Imp Faults and N Power On, PV Available, PV Charging Inverter On, G Power On, PV Available, PV Charging Inverter On, G Provid Provid Data Monitoring throug Tested as per IEC 61683,IEC61727,EI IP33 IP35C ambien Max. 95% Non- 1000m above Sheet Metal ,Floor Standing	i-Ph (User Suitable) in AH-out, Cumulative AH-in, Cumulative AH-out, ging/Discharging nulative, Today Generation r, Import Cumulative, Today Generation ver, Cumulative, Power Factor boot Energy, Load Energy. Wamings rid Import Mode , Fault, HYBRID/OFF GRID Mode ttings Input ded ded ded led lef I Force Cooling t Operation -Condensing e sea level Floor Standing,Front/Rear Door	
1         2         3         4         5         6         3         1         2         3         4         5         6         1         2         3         4         5         6         7         8	SER INTERFACE DISPLAY INTERFACE DISPLAYED PARAMETERS Battery Parameters PV Parameters Grid Parameters Load Parameters Data Logging System Level INDICATION/ PROTECTION LED Indication: User Keypad for Settings Changes Breakers at all Inputs/Space Heater/Emergency stop Button Over Shoot due to misbehaviour of BHMS Remote Monitoring: Optional* DESIGNED & MANUFACTURED THE PRODUCT AS FOR IEC MISCELLANEOUS Degree of Protection Cooling Method Operating Temperature Humidity (Non-condensign) Altitude (above Sea level) Housing Coolor Shade	LCD NUMERIC VRLA / LMLA/ Li-lon/L Voltage, Charging Current, Discharging Current, AH- Charging State-Char Voltage, Current, Dewer, Curr Voltage, Current, Frequency, Import Powe Voltage, Current, Frequency, Pow 90 Days PV Generation, Imp Faults and V 90 Days PV Generation, Imp Faults and V Power On, PV Available, PV Charging Inverter On, G Power On, PV Available, PV Charging Inverter On, G Provid Provid Data Monitoring throug Tested as per IEC 61683,IEC61727,EI IP3: Temp. Controlled 0-55C ambien Max. 95% Non- 1000m abov Sheet Metal ,Floor Standing RAL-7035/	i-Ph (User Suitable) in AH-out, Cumulative AH-in, Cumulative AH-out, ging/Discharging nulative, Today Generation r, Import Cumulative, Today Generation ver, Cumulative, Power Factor boort Energy, Load Energy. Wamings rid Import Mode , Fault, HYBRID/OFF GRID Mode ttings Input ded ded ded led I Force Cooling t Operation -Condensing e sea level Floor Standing,Front/Rear Door RAL-7016	
1         2         3         4         5         6         3         1         2         3         4         5         6         7         8         9	SER INTERFACE DISPLAY INTERFACE DISPLAYED PARAMETERS Battery Parameters PV Parameters Grid Parameters Load Parameters Data Logging System Level INDICATION/ PROTECTION LED Indication: User Keypad for Settings Changes Breakers at all Inputs/Space Heater/Emergency stop Button Over Shoot due to misbehaviour of BHMS Remote Monitoring: Optional* DESIGNED & MANUFACTURED THE PRODUCT AS FOR IEC MISCELLANEOUS Degree of Protection Cooling Method Operating Temperature Humidity (Non-condensign) Altitude (above Sea level) Housing Color Shade Cable Entry	LCD NUMERIC VRLA / LMLA/ Li-lon/L Voltage, Charging Current, Discharging Current, AH- Charging State-Char Voltage, Current, Power, Cur Voltage, Current, Frequency, Import Powe Voltage, Current, Frequency, Pow 90 Days PV Generation, Imp Faults and V 90 Days PV Generation, Imp Faults and	i-Ph (User Suitable) in AH-out, Cumulative AH-in, Cumulative AH-out, ging/Discharging nulative, Today Generation r, Import Cumulative, Today Generation ver, Cumulative, Power Factor boort Energy, Load Energy. Wamings rid Import Mode , Fault, HYBRID/OFF GRID Mode ttings Input ded ded ded gh (GPRS Optional) NS0530 and IEC60068 (1,2,14,30). 1 I Force Cooling t Operation -Condensing e sea level Floor Standing,Front/Rear Door RAL-7016 Front Bottom	
1         2         3         4         5         6         3         1         2         3         4         5         4         5         6         7         8         7         8	SER INTERFACE DISPLAY INTERFACE DISPLAYED PARAMETERS Battery Parameters PV Parameters Grid Parameters Load Parameters Data Logging System Level INDICATION/ PROTECTION LED Indication: User Keypad for Settings Changes Breakers at all Inputs/Space Heater/Emergency stop Button Over Shoot due to misbehaviour of BHMS Remote Monitoring: Optional* DESIGNED & MANUFACTURED THE PRODUCT AS FOR IEC MISCELLANEOUS Degree of Protection Cooling Method Operating Temperature Humidity (Non-condensign) Altitude (above Sea level) Housing Coolor Shade	LCD NUMERIC VRLA / LMLA/ Li-lon/L Voltage, Charging Current, Discharging Current, AH- Charging State-Char Voltage, Current, Dewer, Curr Voltage, Current, Frequency, Import Powe Voltage, Current, Frequency, Pow 90 Days PV Generation, Imp Faults and V 90 Days PV Generation, Imp Faults and V Power On, PV Available, PV Charging Inverter On, G Power On, PV Available, PV Charging Inverter On, G Provid Provid Data Monitoring throug Tested as per IEC 61683,IEC61727,EI IP3: Temp. Controlled 0-55C ambien Max. 95% Non- 1000m abov Sheet Metal ,Floor Standing RAL-7035/	i-Ph (User Suitable) in AH-out, Cumulative AH-in, Cumulative AH-out, ging/Discharging nulative, Today Generation r, Import Cumulative, Today Generation ver, Cumulative, Power Factor boort Energy, Load Energy. Wamings rid Import Mode , Fault, HYBRID/OFF GRID Mode ttings Input ded ded ded gh (GPRS Optional) NS0530 and IEC60068 (1,2,14,30). 1 I Force Cooling t Operation -Condensing e sea level Floor Standing,Front/Rear Door RAL-7016 Front Bottom	





### Li+UPS 1100/12V

## WALL MOUNTED UPS

#### **Inbuilt Lithium-ion Battery**

#### **UPS** Features

- •DSP Pure Sine Wave Technology Using Heavy Duty Mosfet
- •LCD Display (16 X 2)
- Built In Galvanic Isolation Transformer
- Automatic Bypass
- Charging Current 25 Amp
- Generator Compatible

### **Battery Features**

- RATED VOLTAGE (V) 12.8
- RATED CAPACITY (AH) 100Ah
- •NO. OF CELLS IN SERIES & PARALLEL CONNECTION 4S1P
- RATED ENERGY (Wh) 1280
- CHARGE AND DISCHARGE CUT-OFF VOLTAGE (V) 11.8~13.8V
- •CHARGING MODE CC-CV
- STANDARD DISCHARGING CURRENT (A) 65
- •ALLOWED DEPTH OF DISCHARGE 80%



### **Backup Chart**

Load	200Watt.	400Watt.	600Watt.	800Watt.
Time	7:00hrs.	3:15hrs.	2:10hrs.	1:35hrs.

• MODEL : Li+UPS 1100/12V

- RATING : 1000VA/12V
- •BULB LOAD in WATT ±5% : 800 WATT
- CHARGING CURRENT : 25A
- •BATTERY CHARGING TIME : 4:30 mins.



Fast Charging

Battery Charging in 4:30 mins.



Built in BMS Automatic Low & High Battery Cut-out



Long Cycle Life 5000 cycle life under normal operating conditions Cycle Life



Maintenance Free No Acid Spills or Fumes



Protection 24x7 Over-load & Short Circuit

Li+ UPS



### Lithium-ion Series

#### 2500/24V Inbuilt Lithium-ion Battery 2.56 kWh



#### 5000/48V Inbuilt Lithium-ion Battery 4.8 kWh



#### **UPS** Features

- DSP Pure Sine Wave Technology Using Heavy Duty Mosfet
- LCD Display (16 X 2)
- Built In Galvanic Isolation Transformer
- Automatic Bypass
- Charging Current 25 Amp
- Protection 24x7 : Over-load, Short Circuit, Over-temperature, Deep-discharge, Over-charge & Over-current Protection.

#### **Battery Features**

- RATED VOLTAGE (V) 25.6V
- RATED CAPACITY (AH) 100Ah
- NO. OF CELLS IN SERIES & PARALLEL CONNECTION 8S1P
- RATED ENERGY (kWh) 2.56 kWh
- CHARGE AND DISCHARGE CUT-OFF VOLTAGE (V) 23.6~27.6V
- CHARGING MODE CC-CV
- STANDARD DISCHARGING CURRENT (A) 65
- ALLOWED DEPTH OF DISCHARGE 80%
- MODEL : Li+UPS 2500/24V
- RATING : 2200VA/24V
- BULB LOAD in WATT ±1% : 1800 WATT
- CHARGING CURRENT : 25A

#### **Battery Features**

- RATED VOLTAGE (V) 51.2V
- RATED CAPACITY (AH) 100Ah
- NO. OF CELLS IN SERIES & PARALLEL CONNECTION 16S1P
- RATED ENERGY (kWh) 4.8 kWh
- CHARGE AND DISCHARGE CUT-OFF VOLTAGE (V) 44.25~51.75V
- CHARGING MODE CC-CV
- STANDARD DISCHARGING CURRENT (A) 65
- ALLOWED DEPTH OF DISCHARGE 80%
- MODEL : Li+UPS 5000/48V
- RATING : 5KVA/48V
- BULB LOAD in WATT ±1% : 4000 WATT
- CHARGING CURRENT : 25A



Fast Charging Battery Charging in 4:30 mins.



Built in BMS Automatic Low & High Battery Cut-out



Long Cycle Life 5000 cycle life under normal operating conditions Cycle Life



Maintenance Free No Acid Spills or Fumes



Protection 24x7 Over-load & Short Circuit

### Li+ UPS

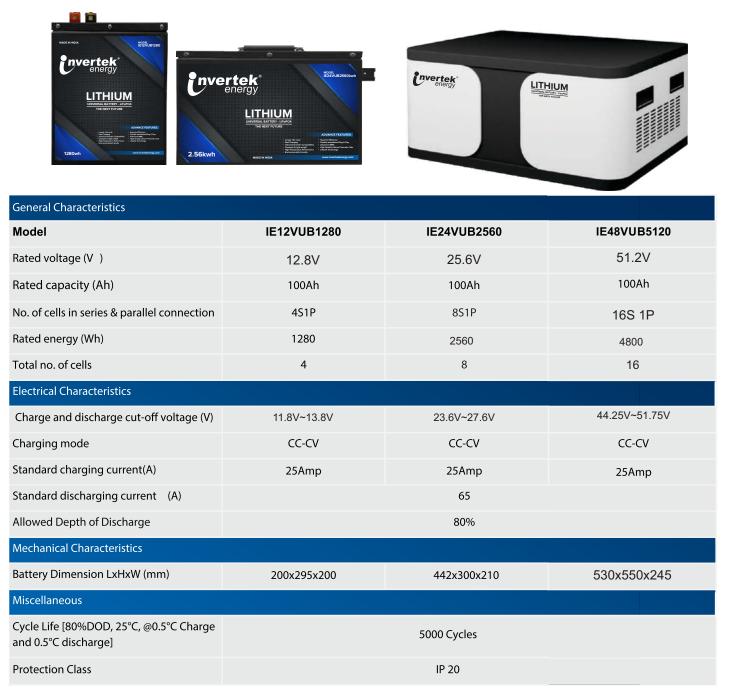


MODEL	1100	2500		5000	
DC BUS	12V	24V		48V	
NO LOAD CURRENT	<1.2 A				
OUTPUT VOLTAGE @ NO LOAD	< 240VAC @12.0 VDC	< 240VAC @24.0 VDC		< 240VAC @48.0 VDC	
BATTERY LOW ALARM	NRM 10.7 +/- 0.2V		ŧV	42.8 +/- 0.8V	
BATTERY LOW SHUTDOWN	10.5 +/- 0.2V 2		¥V	42.0 +/- 0.8V	
SHORT CIRCUIT PROTECTION	YES				
INVERTER OUTPUT FREQUENCY	50 HZ +/- 01 Hz				
VARAMETERS UPS MODE					
MAINS INPUT VOLATGE RANGE	170V TO 265 V				
MAINS AC LOW CUT	170VAC +/- 10VAC				
MAINS AC LOW CUT RECOVERY	180VAC +/- 10VAC				
MAINS AC HIGH CUT	265VAC +/- 10VAC				
MAINS AC HIGH CUT RECOVERY		255VAC +/- 10VA0	2		
MAXIMUM CHANGE OVER TIME		< 8 msec			
PARAMETERS		WIDE UPS MOD	E		
MAINS INPUT VOLATGE RANGE		90V T0 290 V			
MAINS AC LOW CUT		90VAC +/- 10VAC	:		
MAINS AC LOW CUT RECOVERY		110VAC +/- 10VAC	2		
MAINS AC HIGH CUT		290VAC +/- 10VA	C		
MAINS AC HIGH CUT RECOVERY		280VAC +/- 10VA	C		
MAXIMUM CHANGE OVER TIME		< 18 msec			
PARAMETERS		CHARGING MOD	E		
CHARGING CURRENT @ 220V AC		25 Amp			
BOOST VOLATGE (TUBULAR MODE )	14.4V +/- 0.2V		28.8V +/- 0.4V	57.6V +/- 0.8V	
BOOST VOLATGE (LEAD ACID MODE )	14.0V +/- 0.2V		28.0V +/- 0.4V	56.0V +/- 0.8V	
FLOAT VOLTAGE	13.6V +/- 0.2V		27.2V +/- 0.4V	54.4V +/- 0.8V	
SHORT CIRCUIT	YES				
PROTECTIONS					
BATTERY LOW CUT OFF	1 TIME				
OVERLOAD (AUTO RETRIES)	4 TIME				
SHORT CIRCUIT (AUTO RETRIES)	3 TIME				
OVER TEMPERATURE	3 TIME				
BATTERY OVER CHARGE	YES				
INPUT PROTECTION	YES (MAINS MO	CB TRIP INCASE OF SHORT	CIRCUIT IN MAINS MODE )		
ENVIRONMENT					
STORAGE TEMPERATURE		0 TO + 40 C			
OPERATING TEMPERATURE		0 TO + 40 C			
HUMIDITY		0-95% NON-CONDEN	ISNG		
ACOUSTIC NOISE (at 1 mts )	< 45dB from 1 METER				
PROTECTION GLASS		IP-20			



## **Universal Battery - LiFePO4**

It's Universal Battery can Charged with any Normal Inverter



Note: Inverter settings should be configured according to the specified parameters to ensure optimal backup performance." \*Specifications are subject to change without any prior notice.

### **GLOBAL PRESENCE**



### Manufactured By: INVERTEK ENERGY SOLUTIONS PVT. LTD.

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