MADE IN INDIA

invertek energy®

PRODUCT CATALOGUE

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

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

Customer Centricity
Client-focused Service, Responsive Assistance

Sustainability
Eco-conscious Practices, Sustainable Technology

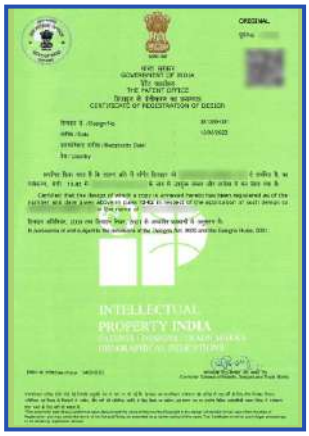
Integrity
Transparency, Honesty, Ethical Conduct

R&D

QUALITY DEPARTMENT

PRODUCTION LINE

CERTIFICATIONS



Certifications

450/12V

Boost Charging

8Amp Rapid Charging

Resettable Circuit Breaker

Features

- DSP Pure Sine Wave Technology Using Heavy Duty Mosfet
- LED Display
- Built In Galvanic Isolation Transformer
- Automatic Bypass
- 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+ 450**
- **VA RATING : 300VA/12V**
- **BULB LOAD in WATT ±3% : 225 WATT**
- **COMPATIBLE BATTERY : TGEL/TUB/SMF/GEL/Li**
- **CHARGING CURRENT : 8A**

750/12V

Boost Charging

12Amp Rapid Charging

Resettable Circuit Breaker

Features

- DSP Pure Sine Wave Technology Using Heavy Duty Mosfet
- LED Display
- Built In Galvanic Isolation Transformer
- Automatic Bypass
- 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+ 750**
- **VA RATING : 550VA/12V**
- **BULB LOAD in WATT ±3% : 425 WATT**
- **COMPATIBLE BATTERY : TGEL/TUB/SMF/GEL/Li**
- **CHARGING CURRENT : 12A**

950/12V

Boost Charging

20Amp Rapid Charging

Resettable Circuit Breaker

Features

- DSP Pure Sine Wave Technology Using Heavy Duty Mosfet
- LED Display
- Built In Galvanic Isolation Transformer
- Automatic Bypass
- 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**

1050/12V

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
- 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+ 1050**
- **VA RATING : 825VA/12V**
- **BULB LOAD in WATT ±3% : 660 WATT**
- **COMPATIBLE BATTERY : TGEL/TUB/SMF/GEL/Li**
- **CHARGING CURRENT : 15A - 20A**

1250/12V

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
- Electronic Breaker – Resettable Fuse
- Battery Reserve Up To 10.5 V
- 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 + 1250**
- **VA RATING : 1050VA/12V**
- **BULB LOAD in WATT ±3% : 840 WATT**
- **COMPATIBLE BATTERY : TGEL/TUB/SMF/GEL/Li**
- **CHARGING CURRENT : 15A - 20A**

1500/12V

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
- Electronic Breaker – Resettable Fuse
- Battery Reserve Up To 10.5 V
- 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 +1500**
- **VA RATING : 1150VA/12V**
- **BULB LOAD in WATT ±3% : 920 WATT**
- **COMPATIBLE BATTERY : TGEL/TUB/SMF/GEL/Li**
- **CHARGING CURRENT : 15A - 20A**

1700/12V

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 10.5V
- 6 Stage Charging Technology Helps In Increasing Battery Life.
- Compatible With All Types Of Batteries (TGEL/TUB/SMF/GEL/Li)
- Generator Compatible
- Output Terminal Block (N E L) Used

- **MODEL : RAPID+ 1700**
- **VA RATING : 1400VA/12V**
- **BULB LOAD in WATT ±3% : 1120 WATT**
- **COMPATIBLE BATTERY : TGEL/TUB/SMF/GEL/Li**
- **CHARGING CURRENT : 15A - 20A**

2000/12V

20 Amp Rapid Charging

24x7 PROTECTION AC MCB

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 10.5V
- 6 Stage Charging Technology Helps In Increasing Battery Life.
- Compatible With All Types Of Batteries (TGEL/TUB/SMF/GEL/Li)
- Generator Compatible
- Output Terminal Block (N E L) Used

- **MODEL : RAPID+ 2000**
- **VA RATING : 1600VA/12V**
- **BULB LOAD in WATT ±3% : 1280 WATT**
- **COMPATIBLE BATTERY : TGEL/TUB/SMF/GEL/Li**
- **CHARGING CURRENT : 15A - 20A**

2000/24V

20 Amp Rapid Charging

24x7 PROTECTION AC MCB

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 10.5V
- 6 Stage Charging Technology Helps In Increasing Battery Life.
- Compatible With All Types Of Batteries (TGEL/TUB/SMF/GEL/Li)
- Generator Compatible
- Output Terminal Block (N E L) Used

- **MODEL : RAPID+ 2000**
- **VA RATING : 1700VA/24V**
- **BULB LOAD in WATT ±3% : 1360 WATT**
- **COMPATIBLE BATTERY : TGEL/TUB/SMF/GEL/Li**
- **CHARGING CURRENT : 15A - 20A**

2500/24V

20 Amp Rapid Charging

24x7 PROTECTION AC MCB

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 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+ 2500**
- **VA RATING : 2300VA/24V**
- **BULB LOAD in WATT ±3% : 1850WATT**
- **COMPATIBLE BATTERY : TGEL/TUB/SMF/GEL/Li**
- **CHARGING CURRENT : 15A - 20A**

3000/24V

20 Amp Rapid Charging

24x7 PROTECTION AC MCB

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 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+ 3000**
- **VA RATING : 2700VA/24V**
- **BULB LOAD in WATT ±3% : 2160 WATT**
- **COMPATIBLE BATTERY : TGEL/TUB/SMF/GEL/Li**
- **CHARGING CURRENT : 15A - 20A**

3500/24V

20 Amp Rapid Charging

24x7 PROTECTION AC MCB

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 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+ 3500**
- **VA RATING : 3150VA/24V**
- **BULB LOAD in WATT ±3% : 2500 WATT**
- **COMPATIBLE BATTERY : TGEL/TUB/SMF/GEL/Li**
- **CHARGING CURRENT : 15A - 20A**

4500/48V

20 Amp Rapid Charging

24X7 PROTECTION DC MCB DOUBLE POLE

24x7 PROTECTION AC MCB

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 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 + 4500**
- **VA RATING : 4100VA/48V**
- **BULB LOAD in WATT ±3% : 3280 WATT**
- **COMPATIBLE BATTERY : TGEL/TUB/SMF/GEL/Li**
- **CHARGING CURRENT : 15A - 20A**

5500/48V

20 Amp Rapid Charging

24X7 PROTECTION DC MCB DOUBLE POLE

24x7 PROTECTION AC MCB

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 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

20 Amp Rapid Charging

24X7 PROTECTION DC MCB DOUBLE POLE

24x7 PROTECTION AC MCB

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**

MODEL	450	750	950	1050	1250	1350	1500	1700	2000	2000	2500	3000	3500	4500	5500	7500
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	10.7 +/- 0.2V									21.4 +/- 0.4V				42.8 +/- 0.8V		
BATTERY LOW SHUTDOWN	10.5 +/- 0.2V									21.0 +/- 0.4V				42.0 +/- 0.8V		
SHORT CIRCUIT PROTECTION	YES															
INVERTER OUTPUT FREQUENCY	50 HZ +/- 0.1 Hz															
PARAMETERS	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 +/- 10VAC															
MAXIMUM CHANGE OVER TIME	< 8 msec															
PARAMETERS	WIDE UPS MODE															
MAINS INPUT VOLATGE RANGE	90V T0 290 V															
MAINS AC LOW CUT	90VAC +/- 10VAC															
MAINS AC LOW CUT RECOVERY	110VAC +/- 10VAC															
MAINS AC HIGH CUT	290VAC +/- 10VAC															
MAINS AC HIGH CUT RECOVERY	280VAC +/- 10VAC															
MAXIMUM CHANGE OVER TIME	< 18 msec															
PARAMETERS	CHARGING 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				54.4V +/- 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 (RESSETABLE FUSE)									YES (MAINS MCB 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-CONDENSNG															
ACOUSTIC NOISE (at 1 mts)	< 45dB from 1 METER															
PROTECTION GLASS	IP-20															

10KVA/96V

24X7 PROTECTION
DC MCB DOUBLE POLE

24x7 PROTECTION
AC MCB

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/96V**
- **BULB LOAD in WATT ±3% : 8000 WATT**
- **COMPATIBLE BATTERY : TGEL/TUB/SMF/GEL/Li**
- **GRID CHARGING CURRENT : 20A**

10KVA/120V

24X7 PROTECTION
DC MCB DOUBLE POLE

24x7 PROTECTION
AC MCB

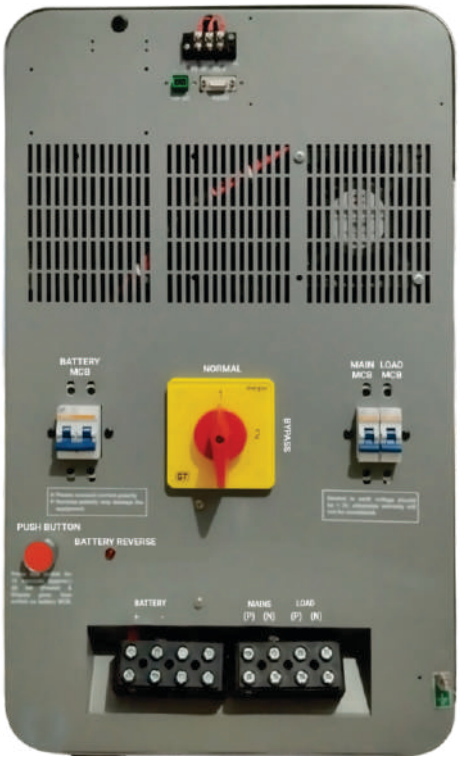
Features

- 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**

FRONT PANEL

BACK PANEL



1230/12V – 30 AMP SCC

CONTROLLED BATTERY CHARGING

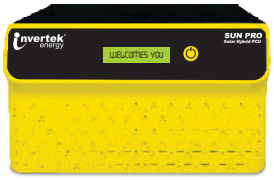
LOAD SHARING

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 – 30 Amp
- Lcd Display (16 X 2)
- Built In Galvanic Isolation Transformer
- Automatic Bypass
- Efficiency – 85%
- Powerful Charging During Low Voltage– 70V
- Battery Reverse Protection
- Resettable fuse
- 6 Stage Charging Technology Helps In Increasing Battery Life.
- Load Start Up to 300% Of Rated Capacity
- Compatible With All Types Of Batteries (TGEL/TUB/SMF/GEL/Li)
- Generator Compatible
- Crest Factor 3:1

- **MODEL : SUN PRO 1230**
- **VA RATING : 1050/12V**
- **BULB LOAD in WATT ±3% : 840 WATT**
- **VOC : 28V**
- **SOLAR CHARGE CONTROLLER : 30 AMP**
- **MAX PV ARRAY : 600W**

1550/12V – 50 AMP SCC



CONTROLLED BATTERY CHARGING

LOAD SHARING

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 to 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 1550**
- **VA RATING : 1375/12V**
- **BULB LOAD in WATT ±3% : 1100 WATT**
- **VOC : 28V**
- **SOLAR CHARGE CONTROLLER : 50 AMP**
- **MAX PV ARRAY : 1000W**

2050/24V – 50 AMP SCC

CONTROLLED BATTERY CHARGING

LOAD SHARING

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**

2770/24V – 70 AMP SCC

CONTROLLED BATTERY CHARGING

LOAD SHARING

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**

3270/24V – 70 AMP SCC

CONTROLLED BATTERY CHARGING

LOAD SHARING

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 3270**
- **VA RATING : 2700/24V**
- **BULB LOAD in WATT ±3% : 2160WATT**
- **VOC : 58V**
- **SOLAR CHARGE CONTROLLER : 70 AMP**
- **MAX PV ARRAY : 2500W**

3570/24V – 70 AMP SCC

CONTROLLED BATTERY CHARGING

LOAD SHARING

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 3570**
- **VA RATING : 3150/24V**
- **BULB LOAD in WATT ±3% : 2500 WATT**
- **VOC : 58V**
- **SOLAR CHARGE CONTROLLER : 70AMP**
- **MAX PV ARRAY : 3000W**

4070/48V – 70 AMP SCC

CONTROLLED BATTERY CHARGING

LOAD SHARING

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
- 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**

5070/48V - 6570/48V – 70 AMP SCC

CONTROLLED BATTERY CHARGING

LOAD SHARING

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
- Battery / DC MCB - ISOLATES BATTERY FROM UPS.
- Solar MCB Used

- **MODEL : SUN PRO 5070/6570**
- **VA RATING : 5000/48V & 6500/48V**
- **BULB LOAD in WATT ±3% : 4200 WATT & 5200 WATT**
- **VOC : 110V**
- **SOLAR CHARGE CONTROLLER : 70 AMP**
- **MAX PV ARRAY : 4000W & 4500W**

Model	1230	1550	2050	2770	3270	3570	4070	5070	6570
DC BUS	12V		24V				48V		
SCC TYPE	PWM								
MAX PV CONNECTED IN WATT	600W / 28V	1000W/ 28V	1500W / 58V	2000W / 58V	2500W / 58V	3000W / 58V	3500W/110V	4000W/110V	4500W/110V
MAX PV CURRENT in AMP	30 A	50A		70A					
Manins Input mode									
Mains AC low cut UPS mode	170VAC ± 10VAC								
Mains AC low cut recovery UPS mode	180VAC ± 10VAC								
Mains AC high cut UPS mode	265VAC ± 10VAC								
Mains AC high cut recovery UPS mode	255VAC ± 10VAC								
Mains AC low cut WUPS mode	90VAC ± 10VAC								
Mains AC low cut recovery WUPS mode	110VAC ± 10VAC								
Mains AC high cut WUPS mode	290VAC ± 10VAC								
Mains AC high cut recovery WUPS mode	280VAC ± 10VAC								
Input Frequency Range	40Hz to 60Hz								
Voltage Output in Mains Mode	Same as input								
Frequency Output in Mains Mode	Same as input								
Battery									
Battery Type	LA / Tubular / SMF								
DC input voltage	12V		24V				48V		
Battery Quantity 12V 100Ah to 220Ah	1		2				4		
Float charging voltage	13.7V±0.2V		27.4V +/- 0.4V				54.8V +/- 0.8V		
Boost charging voltage for Tubular and SMF Battery	14.5V±0.2V		29.0V +/- 0.4V				58.0V +/- 0.8V		
Boost charging voltage for LA Battery	14.0V±0.2V		28.0V +/- 0.4V				56.0V +/- 0.8V		
Battery deep Discharge Recovery	Yes (Independent Charger to Recover Deep Discharge Battery)								
Battery High Cut	15.0±0.2V		30.0 +/- 0.4V				60.0 +/- 0.8V		
Charging Current	Upto 20A ± 2A								
Backup Mode									
Output voltage	220VAC +5% -10% (untill battery low alarm)								
Output frequency	50Hz ± 0.2 Hz								
Output waveform	Pure Sine Wave ≤ 5% THD								
No Load current	≤ 4% of rated capacity								
Low Battery Warning	10.7V±0.2V		21.4V +/- 0.4V				42.8V +/- 0.8V		
Low Battery Cut	10.5V±0.2V		21.0V +/- 0.4V				42.0V +/- 0.8V		
Change over time UPS mode	< 10msec								
Change over time WUPS mode	< 25msec								
Crest Factor	1 : 5								
Peak Efficiency	86%								
Protections									
Overload in backup mode	<100% Load Continuously run >100% to <120% Load, System will shut down in 2min >120% to <140% Load, System will shut down in 1min >140% to <160% Load, System will shut down in 17sec >160% to <180% Load, System will shut down in 6sec >180% to <200% Load, System will shut down in 3sec >200% Load, System will shut down in 850msec								
Short Circut in Backup Mode	System will shutdown after 3 - retries in case of output short circuit								
Short Circut in Mains Mode	Mains Fuse Blown			Mains MCB Trip					
Backfeed	System will shutdown in case of backfeed and there is no retry								
Over tempature	Yes provided, if heatsink tempature goes above 100°C System will shut down								
Reverse Battery	DC fuse will belown								
Phase to Phase protection in mains mode	Yes provided by electronic								
Solar Charge Controller									
Solar Charge Controller type	PWM type								
Efficiency	> 96%								
Mains Charging Shairing	If PV power is not sufficient enough to charge the battery, system will start sharing battery charging from PV and grid.								
Load Shairing	Load Shairing is provided, solar will deliver the power as per load and battery requirement. Solar Current = Load Current + Batter Charging Current If load is 0% then it will protect the battery for over charging and increase the battery life deliver <18A current for battery charging.								
Option for Solar Mode & Normal Mode	Yes, provided, user can select Solar Mode or Normal Mode. Hense user can select to Save Maximum Power or Smart Power saving mode. Solar Mode: System will run the 100% load on solar whole days (9:AM to 4:PM) and charge the battery from solar. Normal Mode: System will run the 100% load on solar during peak hours (10:AM to 3:PM) and charge the battery from solar.								
100% Solar Priority & Solar Utilization	System is utilizing 100% solar power available								
Revrse PV protection	Yes provided								
Revrse current flow to PV	Yes provided								
Display and Alarms									
LCD Initial Display	Welcome, Contect Website Address, System Capacity, Charging Till 80VAC and Deep Discharge Battery, System Setting, UPS / WUPS mode, I/P range 90-295VAC / 170-265VAC, Battert Type Selected LA / SMF / Tubular, Battery Capacity Selected 100-135Ah / 150-200Ah,								
LCD Status Display	Mains ON, Input Voltage, Input Frequency, Battery Voltage, Battery Charging, Battery Charged, Charging Current, Backup Mode, UPS ON, UPS OFF, Battery Voltage, Load %, Output Voltage, Output Frequency, Mains Low Cut, Mains High Cut, Mains Not Available, Mains Frequency Cut								
LCD Fault / Protection Status Display	Mains Fuse Belown / MCB Trip, Short Circuit, Overload, Battery Low, High Tempature, Backfeed								
Buzzer	Audible beep for Overload, Short Circuit, Backfeed, Low Battery, Over Tempature, Mains Fuse belown / MCB Trip								
Safety									
HV Test Input to Earth	Leakage current <5mA when 1.5KV applied for 1 min								
HV Test Output to Earth	Leakage current <5mA when 1.5KV applied for 1 min								
IR Test Input to Earth	>5MΩ between @ 500VDC								
IR Test Output to Earth	>5MΩ between @ 500VDC								
Earth Leakage current in Mains mode	< 2.5mA								
Earth Leakage current in Backup mode	< 2.5mA								
Environment									
Operating Temperature	0°C to 40°C								
Storage Temperature	0°C to 50°C								
Operating Relative Humidity	90% Non-Condensing								

5KVA-5KW/48V

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)

10KVA-10KW/96V

Unique Display

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 – 80 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

10KVA-10KW/120V

Unique Display

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 – 80 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

Unique Display

	INVERTER RATING (KVA)	5KVA	10KVA
A. SOLAR 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. Solar 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. GRID CHARGER			
1	Grid Voltage Range (Voltage Sync. Range)	160V-280V (Phase to Nutral)	
2	Grid Frequency Range (Voltage Sync. Range)	50Hz ±5%	
3	Max Grid Import Power (KVA)	5KVA	10KVA
4	Max Battery Amps During Grid Charging (Amps)	68	54
5	Peak Charging Efficiency (%)	>87	
INVERTER (KW)		4	8
1	PV Side	Reverse Polarity, Surg Protection	
2	Battery Side	Reverse Polarity, Over/Under Voltage, Current Limit	
3	Grid Side	Over/Under Voltage, Over/Under Frequency, Anti-Islanding, Surg Protection	
4	Load Side	Overloads, Short Circuit	
5	System Protection	Over Temperature Trip, Breakers at all Inputs, Emergency stop	
D. USER INTERFACE			
1	**DISPLAY INTERFACE**	LCD NUMERICAL DISPLAY	
2	**DISPLAYED PARAMETERS**	VRLA / LMLA/ Li-Ion/Li-Ph (User Suitable)	
1	Battery Parameters	Voltage, Charging Current, Discharging Current, AH-in AH-out, Cumulative AH-in, Cumulative AH-out, Charging State-Charging/Discharging	
2	PV Parameters	Voltage ,Current , Power, Cumulative, Today Generation	
3	Grid Parameters	Voltage, Current, Frequency, Import Power, Import Cumulative, Today Generation	
4	Load Parameters	Voltage, Current, Frequency, Power, Cumulative, Power Factor	
5	Data Logging	90 Days PV Generation, Import Energy, Load Energy.	
6	System Level	Faults and Wamings	
3	**INDICATION/ PROTECTION**		
1	LED Indication:	Power On, PV Available, PV Charging Inverter On, Grid Import Mode , Fault, HYBRID/OFF GRID Mode	
2	User Keypad for Settings Changes	Keypad for Settings Input	
3	Breakers at all Inputs/Space Heater/Emergency stop Button	Provided	
4	Over Shoot due to misbehaviour of BHMS	Provided	
5	Remote Monitoring: Optional*	Data Monitoring through (GPRS Optional)	
4	**DESIGNED & MANUFACTURED THE PRODUCT AS FOR IEC**	Tested as per IEC 61683,IEC61727,EN50530 and IEC60068 (1,2,14,30).	
1	MISCELLANEOUS		
2	Degree of Protection	IP31	
3	Cooling Method	Temp. Controlled Force Cooling	
4	Operating Temperature	0-55C ambient Operation	
5	Humidity (Non-condensign)	Max. 95% Non-Condensing	
6	Altitude (above Sea level)	1000m above sea level	
7	Housing	Sheet Metal ,Floor Standing	Floor Standing,Front/Rear Door
8	Color Shade	RAL-7035/RAL-7016	
9	Cable Entry	Rear Bottom	Front Bottom
10	Cable Termination Type	Bus Bar Type with ring type lugs	
11	Terminal Sizes (PV/Battery/Grid/Load)	TERMINAL SCREW TYPE	35-50MM/35-50MM/25MM/25MM

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

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

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	10.7 +/- 0.2V	21.4 +/- 0.4V	42.8 +/- 0.8V
BATTERY LOW SHUTDOWN	10.5 +/- 0.2V	21.0 +/- 0.4V	42.0 +/- 0.8V
SHORT CIRCUIT PROTECTION	YES		
INVERTER OUTPUT FREQUENCY	50 HZ +/- 0.1 Hz		
PARAMETERS	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 +/- 10VAC		
MAXIMUM CHANGE OVER TIME	< 8 msec		
PARAMETERS	WIDE UPS MODE		
MAINS INPUT VOLATGE RANGE	90V T0 290 V		
MAINS AC LOW CUT	90VAC +/- 10VAC		
MAINS AC LOW CUT RECOVERY	110VAC +/- 10VAC		
MAINS AC HIGH CUT	290VAC +/- 10VAC		
MAINS AC HIGH CUT RECOVERY	280VAC +/- 10VAC		
MAXIMUM CHANGE OVER TIME	< 18 msec		
PARAMETERS	CHARGING MODE		
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 MCB 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-CONDENSNG		
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

General Characteristics			
Model	**IE12VUB1280**	**IE24VUB2560**	**IE48VUB5120**
Rated voltage (V)	12.8V	25.6V	51.2V
Rated capacity (Ah)	100Ah	100Ah	100Ah
No. of cells in series & parallel connection	4S1P	8S1P	16S 1P
Rated energy (Wh)	1280	2560	4800
Total no. of cells	4	8	16
Electrical Characteristics			
Charge and discharge cut-off voltage (V)	11.8V~13.8V	23.6V~27.6V	44.25V~51.75V
Charging mode	CC-CV	CC-CV	CC-CV
Standard charging current(A)	25Amp	25Amp	25Amp
Standard discharging current (A)		65	
Allowed Depth of Discharge		80%	
Mechanical Characteristics			
Battery Dimension LxHxW (mm)	200x295x200	442x300x210	530x550x245
Miscellaneous			
Cycle Life [80%DOD, 25°C, @0.5°C Charge and 0.5°C discharge]		5000 Cycles	
Protection Class		IP 20	

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.

Factory Address:
Plot No. 445 Kh. No. 9/20,10/16, Laxmi Vihar, Najafgarh,
Near DTC Bus Depot Dichaon Kalan, UER2 Expressway,
South West Delhi-110043 (INDIA)
www.invertekenergy.com, info@invertekenergy.com
Customer Care No.: +91 9311369797

Dubai Address
Office no. 34, 26th Floor, Al Moosa Tower 2, Sheikh Zayad Road, Dubai, **UAE**

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