

MADE IN INDIA

invertek energy

www.invertekenergy.com

Mega+

Pure Sine Wave Commercial UPS Series
900/12V - 5000/48V



VARIABLE GRID CHARGING
UP TO 25AMP
5A / 10A / 15A / 25A



POWERFUL CHARGING
EVEN DURING VERY
LOW VOLTAGE



4TH GENERATION
32 BIT WITH FAST
MICRO PROCESSOR



BUILT-IN ISOLATION
TRANSFORMER



24X7 PROTECTION
MCB



INSTANT
CHANGEOVER TIME



LCD DISPLAY
16X2



CREST FACTOR



24X7 PROTECTION
DC MCB DOUBLE POLE

Invertek Energy is an upcoming player in the power product industry. It makes sense that the company's top-notch products are what have enabled it to become India's most strong brand. With its ability to create dependable products with the newest technology integrated that are well accepted and valued by household consumers and the industrial sector around the world. Invertek Energy provides a comprehensive range of power backup solutions, Solar Solutions and Battery.

FEATURE

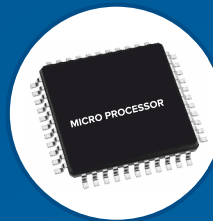
“Uninterrupted Power Supply (UPS) is an electronic device that allows IT load as well as normal electrical appliances to keep running when the primary power source is lost. It also provides protection from power surges. The Change over time is near zero which helps IT loads to run effectively”



VARIABLE GRID CHARGING
UP TO 25AMP \pm 3A
5A / 10A / 15A / 25A



POWERFUL CHARGING
EVEN DURING VERY
LOW VOLTAGE



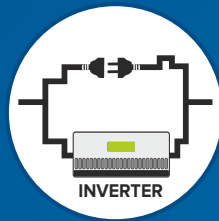
4TH GENERATION
32 BIT WITH FAST
MICRO PROCESSOR



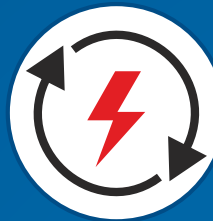
BUILT-IN ISOLATION
TRANSFORMER



24X7 PROTECTION
AC MCB
* Available from 1250 to 5000



AUTOMATIC
BYPASS
*Available from 900 to 2500



INSTANT
CHANGEOVER TIME



LCD DISPLAY
16X2



CREST FACTOR



MANUAL
BYPASS SWITCH
*Available in 3500 & 5000



24X7 PROTECTION
DC MCB DOUBLE POLE
*Available in 3500 & 5000



GENERATOR
COMPATIBLE

SUPER FAST CHARGING

Mega+ Pure Sine Wave UPS Series is designed for 6 stage charging technology which can charge your battery up to 25 AMP±3A. It has variable charging current option which you can choose as per battery capacity i.e from 25 Ah to 300 Ah range.



SUPER FAST CHARGING

CUSTOMIZED CHARGING UP TO

25 Amp. ±3A



1100/12V

24X7 PROTECTION MCB

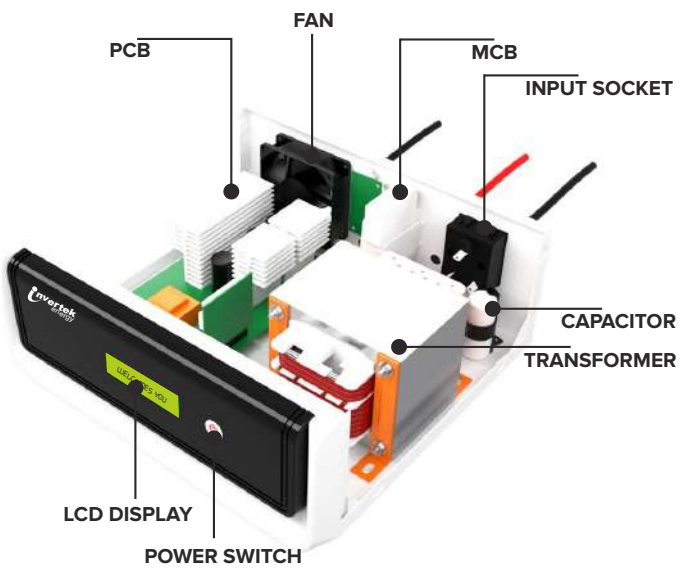
MCB is an electro-mechanical device which protects the electrical circuit in case of overload and short circuit faults. MCB detects the fault condition and automatically switch off to interrupt the circuit current and it can be manually switched ON after removing the fault.



10Amp



1500/12V



1500/12V

POWERFUL CHARGING ON LOW VOLTAGE 90V

Typically, the UPS batteries require minimum 130 volt for Charging.

Mega+ Pure Sine Wave UPS Series can charge the battery even as low as 90 volt.

FIRST IN THE INDUSTRY

130V



130V-1.5A

90V



90V-3.5A

1600/24V

BUILT-IN ISOLATION TRANSFORMER

True Galvanic Isolation : Fundamental Frequency transformer is used for low frequency isolation at the grid side. It provides safety to equipment against power surges & transients. With pure copper primary winding.

470 Grade PASCO Core Used.



1600/24V

INSTANT CHANGE OVER TIME BEST FOR ALL IT EQUIPMENTS

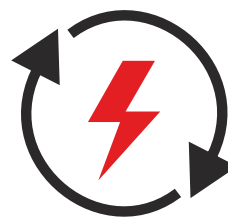
IT has less than <8msec change overtime from mains to battery mode , perfect for running all sensitive equipment's like printer , computer , router , modem , server.



Modem



Printer



Computer



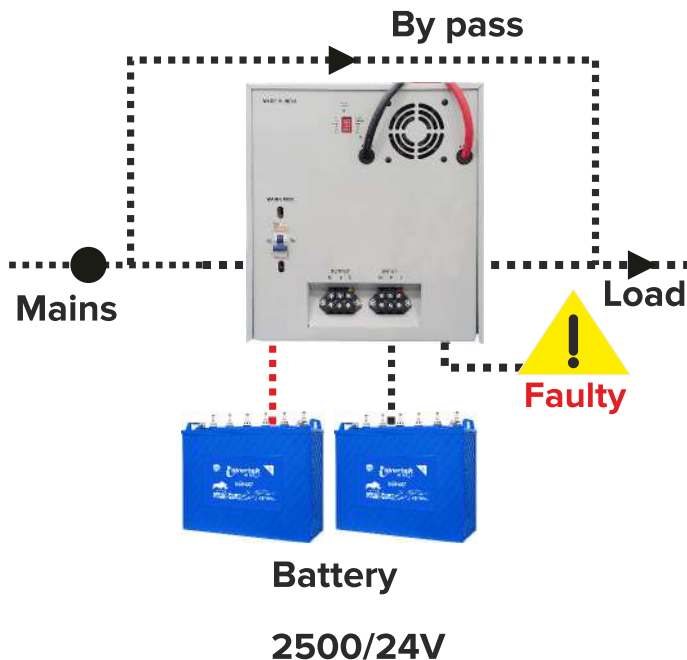
Server

2500/24V

This feature provides uninterrupted power which helps in running all IT equipments continuously.

AUTOMATIC BYPASS ENJOY UNINTERRUPTED POWER SUPPLY EVEN WHEN UPS FAILS

AUTOMATIC BYPASS : If the inverter / UPS fails, the load will drop automatically on the mains / grid power (if available at the time). Due to the automatic bypass switch this insures continuous power.



ALL GENERATORS COMPATIBLE

Mega+ Pure Sine Wave UPS Series can charge batteries with power provided by all kinds of generators local or company made. Wide window of frequency range between 42-65Hz makes it totally compatible with all local generators.



3500/24V - 5000/48V

24X7 PROTECTION DC MCB

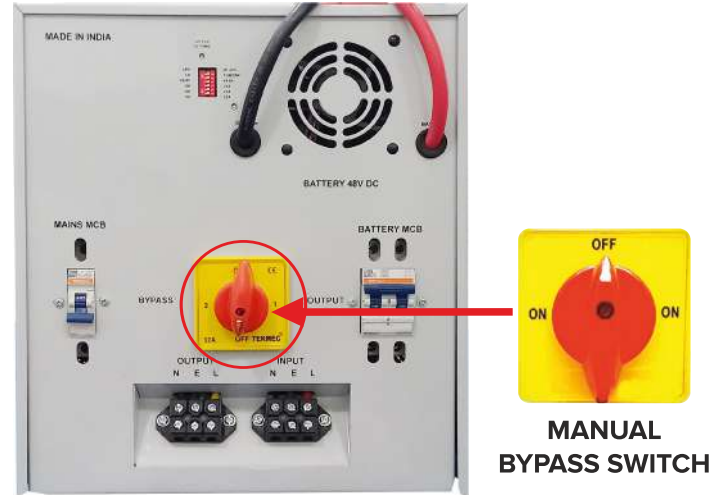
DC MCB is a protection device to safe battery from high surge current. This is installed before Inverter so that in case of high surge current, The battery should remain safe. on 63 amps DC MCB, a batteries having maximum current of 63 amps should be connected.



3500/24V - 5000/48V

MANUAL BYPASS SWITCH

Incase of maintenance of the battery/failure of Mega+ Pure Sine Wave UPS Series or during the servicing of the UPS, the customer himself can directly switch to the mains by a simple twist of a switch, and will not need any electrician to remove any wires from the UPS.



3500/24V - 5000/48V

LCD DISPLAY* MESSAGES

WELCOME YOU

MODEL
▲▲▲▲

MODE-WUPS
I/P RANGE 90-290

BATTERY TYPE
LA / TUB / SMIF

MAINS ON
223 VOLT/50.5HZ

BATTERY VOLTAGE
14.0 VOLT

BATTERY CHARGING
{■■■■■■■■■■■■■■■■}

CHARG MODE-CU
CHARG CURR 04.1A

MAINS STATUS
MAINS FAILS

BACKUP MODE
UPS ON

BATT VOLT 10.7V
LOAD 045%

OUTPUT VOLT 214V
OUTPUT FREQ 50HZ

TECHNICAL SPECIFICATIONS

| MEGA+ | | | | | | | | | | | |
|--|--|-------------------|----------|----------|--------------------|-----------|-----------|---------------------|-----------|-------------|--|
| MODEL | 900 | 1100 | 1250 | 1500 | 1600 | 2000 | 2500 | 3500 | 4000 | 5000 | |
| VA RATING | 800VA | 1000VA | 1100VA | 1250VA | 1600VA | 2000VA | 2500VA | 3200VA | 4000VA | 5000VA | |
| DC BUS | 12V | 12V | 12V | 12V | 24V | 24V | 24V | 24V | 48V | 48V | |
| BULB LOAD in WATT | 640 WATT | 800 WATT | 880 WATT | 1000WATT | 1280 WATT | 1600 WATT | 2000 WATT | 2560 WATT | 3200 WATT | 4000 WATT | |
| NO LOAD CURRENT | < 1.8 A | | | | < 1.8 A | | | | | | |
| OUTPUT VOLTAGE @ NO LOAD | < 240VAC @12.0 VDC | | | | < 240VAC @24.0 VDC | | | < 240VAC @48.0 VDC | | | |
| BATTERY LOW ALARM | 10.5 +/- 0.2V | | | | 21.0 ± 0.2V | | | 42.4 +/- 0.2V | | | |
| BATTERY LOW SHUTDOWN | 10.3 +/- 0.2V | | | | 20.6 ± 0.2V | | | 41.6 +/- 0.2V | | | |
| SHORT CIRCUIT PROTECTION | YES | | | | | | | | | | |
| INVERTER OUTPUT FREQUENCY | 50 HZ ± 0.1 Hz | | | | | | | | | | |
| MODE | UPS MODE | | | | | | | | | | |
| MAINS INPUT VOLTAGE 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 | | | | | | | | | | |
| MODE | WIDE UPS MODE | | | | | | | | | | |
| MAINS INPUT VOLTAGE RANGE | 90V TO 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 | | | | | | | | | | |
| MODE | CHARGING MODE | | | | | | | | | | |
| CHARGING CURRENT @ 220V AC | 15-18A | 5/10/15/25 A ± 3A | | | | | | | | | |
| BOOST VOLTAGE (TUBULAR MODE) | 14.4V ± 0.2V | | | | 28.8V ± 0.4V | | | 57.6V ± 0.8V | | | |
| BOOST VOLTAGE (LEAD ACID MODE) | 14.0V ± 0.2V | | | | 28.0V ± 0.4V | | | 56V ± 0.8V | | | |
| BOOST MODE (ENABLE TUBULAR MODE) | 14.8V ± 0.2V | | | | 28.8V ± 0.4V | | | 57.8V ± 0.8V | | | |
| BOOST MODE (ENABLE LEAD ACID MODE) | 13.8V ± 0.2V | | | | 27.8V ± 0.4V | | | 56.8.0V ± 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 | | | | | | | | | | |
| RECOMMENDATIONS | | | | | | | | | | | |
| INPUT WIRE in Sq mm | 1 SQMM | | | | 4 SQ MM | | | 6 SQ MM | | 8 SQMM | |
| OUTPUT WIRE in Sq mm | N.A | N.A | | | 2.5 SQ MM | | | 4 SQ MM | | 6 SQMM | |
| BATTERY WIRE in Sq mm | 8 SQMM | 10 SQMM | 12 SQMM | 25 SQMM | 10 SQMM | 12 SQMM | 16SQMM | 25 SQMM | 16 SQMM | 25 SQMM | |
| OUTPUT SOCKET | 6 AMP | 16 AMP | | | N.A | | | | | | |
| INPUT/OUTPUT PLUG | 6 AMP | 16A ISI MARKED | | | N.A | | | | | | |
| INPUT TERMINAL BLOCK (N E L) | N.A | | | | 30 AMP (T B) | | | | | | |
| OUTPUT TERMINAL BLOCK (N E L) | N.A | | | | 30 AMP (T B) | | | | | | |
| AC MCB (LOAD AT MAINS BYPASS MODE) | N.A | 10 AMP | | | 16 AMP | 20 AMP | 25 AMP | 32 AMP | 32 AMP | | |
| BATTERY / DC MCB | N.A | | | | | | | 63 AMP DC 2 POLE | | | |
| BYPASS MODE | ELECTRONIC BYPASS | | | | | | | MANNUAL ROTARY TYPE | | | |
| DC FUSE RATING (FOR REVERSE POLAIRTY PROTECTION) | 40 A X 3 Nos | | | | | | | | | 40A x 4 Nos | |

GLOBAL PRESENCE



Manufactured By:
INVERTEK ENERGY SOLUTIONS PVT. LTD.

Factory Address:

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