

MADE IN INDIA

invertek energy

www.invertenergy.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

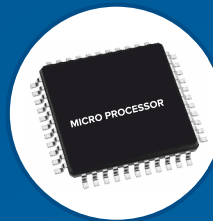
“Uninterrupted Power Supply (UPS) is an electronic device that allows IT load as well as normal electrical appliances to keep running when the primary power source is lost. It also provides protection from power surges. The Change over time is near zero which helps IT loads to run effectively”



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



POWERFUL CHARGING
EVEN DURING VERY
LOW VOLTAGE



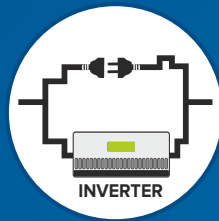
4TH GENERATION
32 BIT WITH FAST
MICRO PROCESSOR



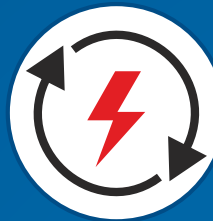
BUILT-IN ISOLATION
TRANSFORMER



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

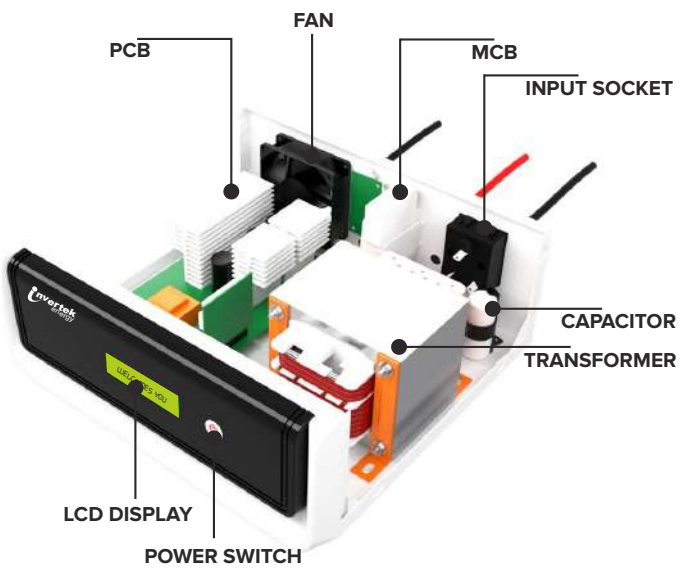
MCB is an electro-mechanical device which protects the electrical circuit in case of overload and short circuit faults. MCB detects the fault condition and automatically switch off to interrupt the circuit current and it can be manually switched ON after removing the fault.



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

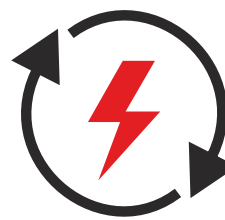
IT has less than <8msec change overtime from mains to battery mode , perfect for running all sensitive equipment's like printer , computer , router , modem , server.



Modem



Printer



Computer



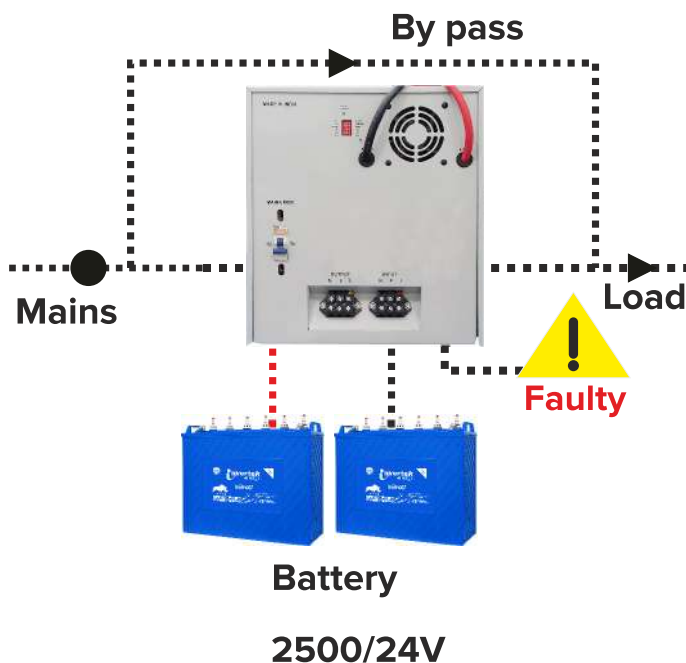
Server

2500/24V

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

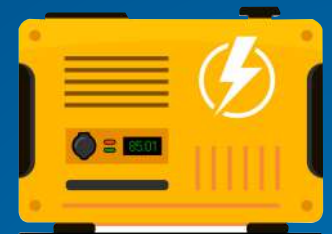
AUTOMATIC BYPASS ENJOY UNINTERRUPTED POWER SUPPLY EVEN WHEN UPS FAILS

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

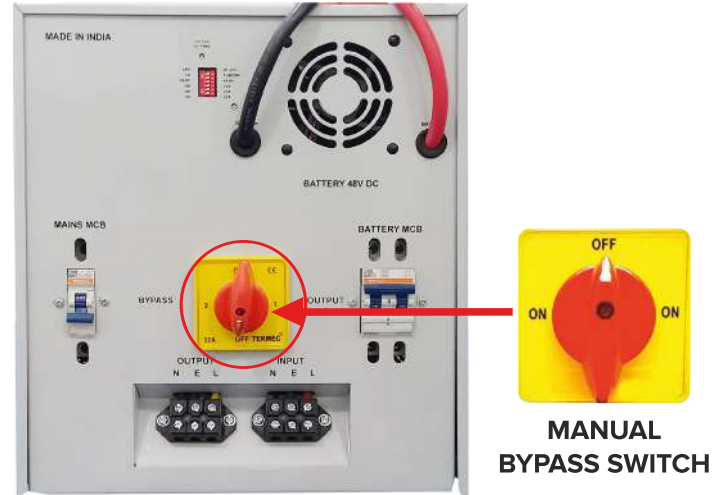
DC MCB is a protection device to safe battery from high surge current. This is installed before Inverter so that in case of high surge current, The battery should remain safe. on 63 amps DC MCB, a batteries having maximum current of 63 amps should be connected.



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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Dichaon Kalan, UER2 Expressway, West Delhi-110043 (INDIA)

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