

1-Ph, 230V, 50/60Hz, 6KVA/48VDC Combined Inverter/Charger with Pure Sine Wave Output and LCD display





Product Description: Magnizon's HG series 6KVA /48V DC operated Smart DC-to-AC inverter with auto line-

to-battery transfer and integrated Battery charge, serving as an extended run UPS, a standalone power source or an automotive inverter. HG series Smart inverter supplies power from AC power and DC source. When AC cable is connected to a wall socket, utility power goes to connected equipment(s) and/or charges the battery set via charging system. In battery mode, Smart inverter automatically converts battery energy into AC power for backing up the connected devices. Large LCD displays real time information along with operational schemes, and can also display error codes for easy repair and maintenance. Reliable transformer less IGBT based design and frequency controlled pure sine wave output power, very much compatible to all domestic loads: refrigerators, TV's, Computers, and power tool and battery chargers. Smart micro controller based 3-stage built in charging system properly charge and maintain battery bank.



Applications:



- Versatile inverter/charger with pure sine wave system with seamless transfer switching serves as an automotive inverter for RVs, trucks, standalone alternative power source with high end back up times with various battery technologies(VRLA, GEL, Deep cycle, Ni-Cd and many more)
- Off-grid and On-grid applications using external MPPT smart controllers
- Home and small office applications
- Remote closets and small computer room applications.
- Petrochemical application
- Critical applications where ever higher reliability is needed
- SMB requirements
- Remote closets and small computer room applications.

Key Feature:

- **48V DC or 220/230/240V AC input; 220/230/240V, 50 /60Hz Pure sine ware output**
- 6000VA continuous output with double boost capacity
- Microprocessor controlled Smart volume design
- Built in 10~35A Smart Utility based battery charger
- Automatic line-to-battery switchover
- High efficient DC-to-AC conversion, minimizing energy loss
- Rack design & wall-mounted design for flexible installation
- Intelligent 3-stage charger control for efficient charging and preventing overcharge of battery
- Auto restart while AC recovery
- User-friendly LCD+LED indications
- Multiple protection: low battery alarm, low battery shutdown, over



- charged protection, overload protection, over temperature protection, short circuit protection
- ❖ With the environmental temperature control charge management
- Quiet, high efficiency operation, high surge capacity and low idle current
- CE Safety
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload, over temperature and battery deep discharge protection

Specifications:

Rated Power	6000VA		
INPLIT			
	INPUT AC		
Nominal Input Voltage	220/230/240V AC		
Low Loss Voltage	170V AC +/- 7V (<mark>UPS m</mark> ode)		
Low Loss Voltage	90V AC +/- 7V (Ap <mark>pliance m</mark> ode)		
Lour loss veture Voltage	180V AC +/- <mark>7V (UPS mod</mark> e)		
Low loss return Voltage	100V AC +/- 7V (Appliance mode)		
High loss Voltage	280VAC +/- 7V		
High loss Return Voltage	270VAC +/- 7V		
Max AC input voltage	300V AC		
Frequency Range	50Hz/60Hz (auto sensing)		
Low loss frequency	40+/-1Hz		
Low loss return frequency	42+/-1Hz		
High loss frequency	65+/-1Hz		
High loss return frequency	63+/-1Hz		
Efficiency	>97%		
ОИТРИТ			
AC Voltage Regulation	230V AC +/- 5%		
Rated Output Power	6KVA/4.8KW		
Output Voltage Waveform	Pure Sine wave		
Output Frequency	50Hz/60Hz (auto sensing)		
Surge Power	6000VA		
Efficiency	95-97%		
Over Load protection	5sec @>150% load; 10sec@110~150% load		
Nominal DC input Voltage	48V DC		



Cold Start Voltage	46.0V DC
Low DC W	arning Voltage
@load < 20%	44.0V DC
@ 20% < load < 50%	42.8V DC
@ load > 50%	40.4V DC
Low DC Warn	ing Return Voltage
@load < 20%	46.0V DC
@ 20% < load < 50%	44.8V DC
@ load > 50%	42.4V DC
Low DC C	ut-off Voltage
@load < 20%	42.0V DC
@ 20% < load < 50%	40.8V DC
@ load > 50%	38.4V DC
High DC Recov <mark>ery V</mark> oltage	58V DC
High DC Cut-off Voltage	62V DC
No Load Power Consumption	<20W
Saving Mode Power Consumption	<10W
Transfer Time	6-10mSec
Efficiency	90~93%
Charge Mode	Specs (AC charger)
Battery Voltage	48V DC
Floating Charge Voltage	54V DC
Overcharge Protection	62V DC
Maximum Charge Current	35Amp
Bulk Charging Voltage (Flooded Battery)	58.4V DC
Bulk Charging Voltage (AGM/GEL battery)	56.4V DC
Charging Algorithm	3-Stage (CC-CV-Floating)
Displa	y Indicators
AC/DC mode	Displays output power, Output Voltage etc
Battery Mode	Yes. Battery symbol flickers every one sec
Battery	Displays Battery charge status
Fault	Displays fault codes (refer the service manual)
Audi	ble Alarm
Low Battery at Battery Mode	Sounding every 2 seconds
Over Load	Sounding every 0.5seconds



Battery deep discharge Protection Yes Battery Over charge protection Yes Inverter Over load protection Yes Over temperature protection Yes General Specs Dimension (WxHxD-mm) 430*350*105mm Net Weight (kgs) 8.5kgs Humidity 5% to 95% Relative Humidity (non-condensing) Operating Temperature OdegC to 40deg C Storage Temperature - 1.5degC to 50degC Cooling Forced air, variable speed fan Noise Level less than 60dB Quality/Safety standards ISO9001:2015/ISO14001:2015 Safety EMC/CE/ROHS Certification/Confirmity Disturbance at Mains Terminals EN61000-6-3:2007+ A1: 2011+ AC:2012 Harmonic Current Emission EN61000-3-12: 2011 Voltage fluctuations & flickering EN61000-3-11: 2000 Electrostatic Discharge (ESD) IEC 6100-4-3:2008+ A1: 2007+ A2:2010 EFT/B Immunity IEC 6100-4-3:2004 Conducted RF immunity IEC 6100-4-3:2014 Conducted RF immunity IEC 6100-4-8:2019 Voltage DIP, >95% reduction IEC 6100-4-11:2004 Voltage DIP, >95% reduction IEC 6100-4-11:2004 Voltage Interruption IEC 6100-4-11:2004	Faults	Continuous sounding	
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