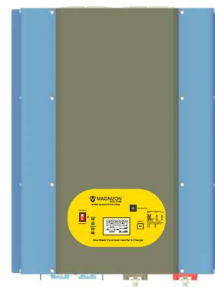


## Model # APS8048SW-LCD

1-Ph, 230V, 50/60Hz, 8KW/48VDC Combined Inverter/Charger with Pure Sine Wave Output and LCD display

### Product Highlights:

- 48V DC or 230V AC input; 230V, 50 Hz output (hardwired)
- 8KW continuous output, 24000 watts peak output
- Microprocessor controlled Smart UPS & Solar operational mode
- 4-Step Progressive Charging & 7-Battery Type Selector
- Fully compatible for Solar/Wind solutions for Hybrid configuration
- Pure sine wave output with LCD display
- High Efficiency Using Line-Interactive Circuit Topology(Full Bridge Topology)
- Quiet, high efficiency operation, high surge capacity and low idle current



### Product Description:

Provide Pure Sine Wave power for all your alternative energy needs with the MAGNIZON APS-8048SW-LCD. This inverter/charger supplies 8000 watts of continuous 230V /50Hz AC power. Reliable large transformer design and frequency control powers very much compatible to all varieties of loads: resistive loads such as refrigerators, motors, pumps compressors and laser printers as well as electronic loads like TV's, Computers, power tool and battery chargers. Smart micro controller based 3-stage charging system properly charge and maintain battery bank. The charge rate is selectable so you can use a variety of battery sizes and types to fit your back up time requirements.

### Applications:

- Well designed for hybrid applications where solar/wind energy systems connected along with grid or generator sets without using any relay and control mechanism.
- 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/small workshop applications.
- Telecom/ Banks/Small power plant applications.
- Remote closets and small computer room applications.

## Product Features:

### Provides safe and reliable power protect for the following equipment:

- Equipment is Office and Public
- Home Appliances
- IT Network Equipment
- Manufacture Control System
- Solar Energy System
- Oil field and Fieldwork

### On inverter:

- High overload ability
- Low battery voltage trip selectable, extracting max power from various batteries with different protections
- Low quiescent current, selectable sensing cycle to reduce power consumption

### On battery charger:

- 3-step intelligent battery charging
- 8 preset battery type selector plus de-sulphation for totally flat batteries
- Powerful charge rate up to 100Amp ,selectable charging current
- PFC(Power Factor Correction) for charger, less power consumption than conventional units

### On Transfer:

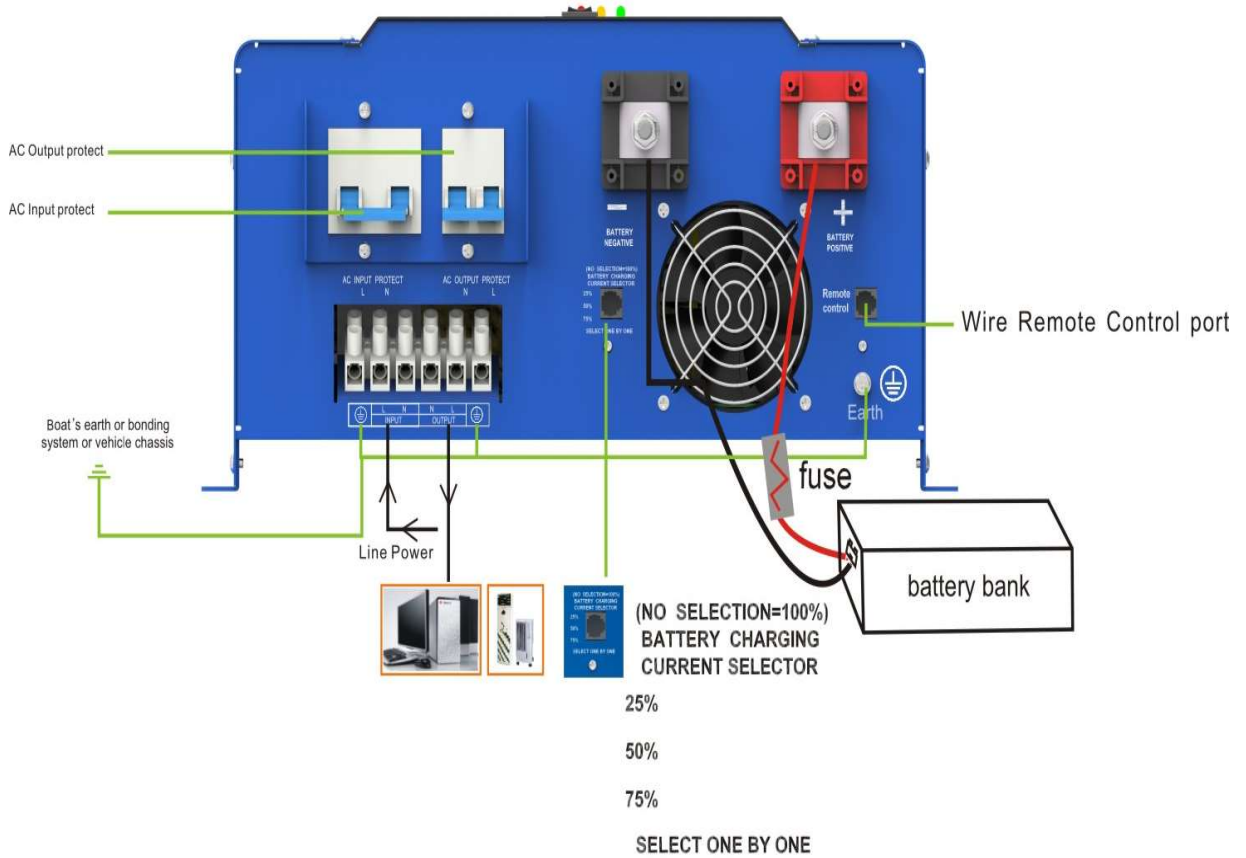
- Delay before transfer, extra protections for loads under generator mode
- Input AC voltage range selectable, for different kinds of loads
- 8 ms typical transfer time, guarantees power continuity
- 30A/40A through current ability
- Output voltage regulation optional

### On remote control & other features

- Ability to switch the unit on/off
- Ability to select/deselect power saver mode
- 17 alarms/warnings, informative for easier operation and trouble-shooting
- LCD status display available
- RS232 communication port optional

**\*\*Built in input and output breakers.**

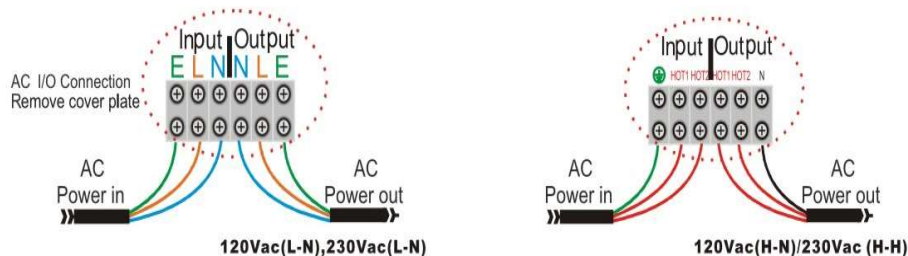
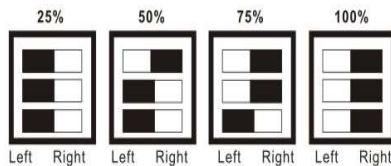
# Product Overview:



Battery charging current: battery charging current selector on 100% (100% is the maximum Battery current) as below

For the Battery Charging Current Selector Switch you can choose 25%, 50%, 75% or 100% of the maximum battery charger current as follow

(the Selector Switch is factory set in 25%):



## Product Specifications:

<b>Model No</b>	<b>APS-8048SW-LCD</b>
<b>Nominal Power</b>	<b>8000Watts</b>
<b>Input Specification</b>	
<b>Input Phase &amp; Wave Form</b>	Single Phase & Sine wave (Utility or Generator)
<b>Nominal Voltage</b>	220/230/240V AC
<b>Input AC voltage Window</b>	154-273C AC
<b>Line Low Transfer</b>	154V +/- 4%
<b>Low Voltage Re engage</b>	164V +/- 4%
<b>High Voltage Trip</b>	273V +/- 4%
<b>High Voltage Re engage</b>	263V +/- 4%
<b>Max Input AC Voltage</b>	270V
<b>Nominal Input Frequency</b>	50Hz or 60Hz (Auto detect)
<b>Low frequency trip</b>	40Hz
<b>High frequency trip</b>	80Hz
<b>Output Connection type</b>	Hardwire via built in junction box with cover plate
<b>Inverter Output Specification</b>	
<b>Output Wave form &amp; Phase</b>	Pure Sine wave & Single Phase (Bypass mode sync to Input)
<b>Power Factor</b>	1
<b>Nominal Output Voltage RMS</b>	220/230/240V AC (L-N) (same as input on Bypass mode)
<b>Output Voltage regulation</b>	+/-10% RMS (bypass mode sync to input)
<b>Output frequency</b>	50Hz +/-0.3Hz or 60Hz +/-0.3Hz
<b>Nominal Efficiency</b>	>88%
<b>Output Connection type</b>	Hardwire via built in junction box with cover plate
<b>Surge rating/crest factor</b>	3 times of rating
<b>Output continuous power in Watts</b>	8000
<b>Output continuous power in VA</b>	8000
<b>Short circuit protection</b>	Yes, fault after 10sec
<b>DC Input Specification</b>	
<b>Nominal Input Voltage Dc</b>	48V DC
<b>Minimum start voltage Dc</b>	40V DC
<b>Low battery Alarm</b>	44V DC
<b>Low battery trip</b>	40V DC
<b>High Voltage alarm</b>	64V DC
<b>Over Charge Voltage</b>	62.8V DC

<b>Max Charging Current</b>	75A DC
<b>DC Connection type</b>	DC INPUT: Set of 2 DC bolt-down terminals. AC INPUT: Hardwire via built in junction box with cover plate
<b>Transfer Efficiency</b>	
<b>Transfer Time</b>	6-10mSec
<b>Line Mode</b>	>95%
<b>Battery Model</b>	>85%
<b>Power Save</b>	Available when the load is less than 75W
<b>Indicators/Alarms</b>	
<b>4-LED Status Display</b>	Charge, Line, Inverter & fault
<b>LCD Display</b>	Input Voltage, Output Voltage, Frequency, Battery voltage, Load, Temperature, Charge current & Fault
<b>Switch Selector</b>	Saving Mode is On/Off when push the switch forward/backwards, keeping it horizontal is turning the inverter Off
<b>Audible Alarm</b>	Sounding when the heat sink's temperature is over 105deg C and shutdown after 30 seconds
<b>Protections</b>	Low Battery, Over charging, Over temp & over load
<b>Communications</b>	RJ11/RS232 (optional)
<b>Environmental Details</b>	
<b>Operating Temp</b>	0-40deg C
<b>Humidity</b>	0-95% RH (non-condensing)
<b>Audible Noise</b>	<60dB
<b>Physical Details</b>	
<b>Size (in mm)</b>	549x450x202
<b>Weight</b>	56Kgs
<b>Warranty</b>	2 Year limited warranty Extendable up to 4 years
<b>Safety</b>	EMC/CE/ROHS/ISO9001
<b>Certification/Conformity</b>	
<b>Disturbance at Mains Terminals</b>	EN61000-6-3:2007+ A1: 2011+ AC:2012
<b>Radiated Disturbance</b>	EN61000-6-3:2007+ A1: 2011+ AC:2012
<b>Harmonic Current Emission</b>	EN61000-3-12: 2011
<b>Voltage fluctuations &amp; flickering</b>	EN61000-3-11: 2000
<b>Electrostatic Discharge (ESD)</b>	IEC 6100-4-2:2008
<b>Radio-frequency &amp; continues radiated disturbances</b>	IEC 6100-4-3:2006 + A1:2007 + A2:2010
<b>EFT/B Immunity</b>	IEC 6100-4-4:2012

<b>Surge immunity</b>	IEC 6100-4-5:2014
<b>Conducted RF immunity</b>	IEC 6100-4-6:2013
<b>Power frequency magnetic field</b>	IEC 6100-4-8:2009
<b>Voltage DIP, &gt;95% reduction</b>	IEC 6100-4-11:2004
<b>Voltage DIP, &gt;30% reduction</b>	IEC 6100-4-11:2004
<b>Voltage Interruption</b>	IEC 6100-4-11:2004

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