



(110VAC Version Shown)

Benefits

- Ultra-Quiet
- Power sensitive electronics without interference
- Rugged & Reliable
- Ensure years of safe and trouble free operation

Applications

- Marine & other Rugged Environments
- Military Vehicles
- Computer Systems
- Mobile Offices (TV and Radio Vans)
- Automotive / RV
- Electric Utilities and Substations
- Base Station Power (Radio)
- OEM Applications
- Field Work / Construction Sites
- Solar / Alternative Power Systems
- Emergency Power Backup (UPS)
- Forklift Mountable

DC/AC Q'Sine Inverters

IQS300 Series Inverter

Description

The IQS300 Series of Power Inverters provide 120 Volts AC or 220 Volts AC at 300 Watts of continuous power from a 12V, 24V or 32 Volt DC source. State of the Art MOSFET technology coupled with unique "Soft-Start" circuitry guarantees reliable operation. The ON-OFF switch illuminates when AC is present at the outputs to provide positive indication of proper operation.

Full electrical isolation between the input and output allows operation from either positive ground or negative ground DC power sources. The output is a full 160 or 320 Volts peak (115/230V rms) to allow it to handle most applications from sonar monitors to electric drills.

Extremely heavy input filtering ensures that no electrical noise will be generated to interfere with autopilots, radios or other devices sharing the same batteries. The transformer type output prevents any spikes or surges that might damage computers or other sensitive equipment.

Low voltage shutdown circuitry protects the batteries. Current Limiting and Over Temperature shutdown protect the inverter. Ground Fault Interrupt and Short Circuit Detection protect both the user and inverter. Diagnostic LEDs indicate the cause of any shutdown and show when the unit is overloaded.

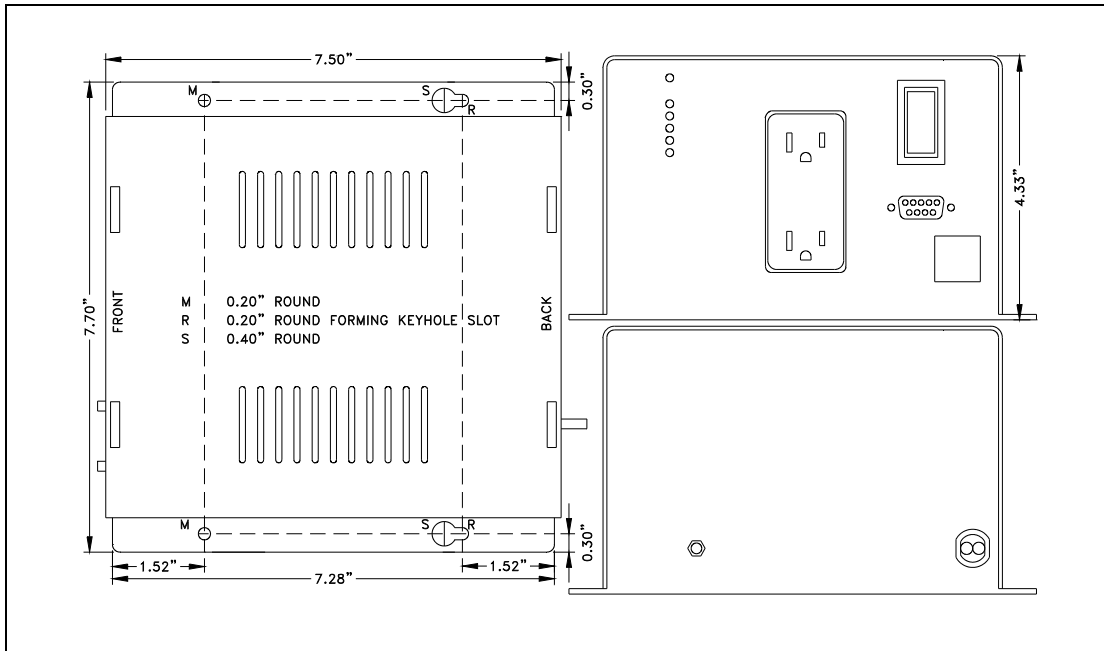
One standard AC receptacle provides for easy connection. Versions are available to operate from 12, 24 or 32 Volt battery systems. The Q'Sine 300 series of inverters carry a full three-year warranty.

Features

- Extremely rugged and well suited for marine and other demanding environments
- High tolerance for shock and vibration
- Ultra-quiet low EMI design
- Extra heavy input filtering to eliminate interference with other equipment sharing the same batteries
- Short circuit protection with automatic recovery
- Diagnostic LED's
- Over-temperature protection
- Current limiting
- Ground fault protection
- Audible alarm
- Isolated input for positive or negative ground operation
- Built in Decora style receptacle accepts all standard 110VAC plugs
- Single IEC 320 receptacle & plug (220V models)
- Remote Control Panel Option
- 3 year parts and labour warranty

IQS300 Series DC/AC Quasi-Sine Wave Inverter

Mechanical Diagram



Specification

Electrical (Input)

Nominal (ip)	12	24	32
Actual (Vdc)	11-14	22-28	32-38
Input Amps (max)	48	24	16.5
Input Fuse (ATC)	25A x 2	30A	25A

Environmental Specification

Operating Temp. Range	-25° - +40°C @ maximum output Derate Linearly 2.5% per °C from 40°C (Optional -40°C extra wide temp. operation avail.)
Humidity	0 - 95°C Relative Humidity (non-condensing) with optional conformal coating
Audible Noise	Ø dB @ 3 ft
Typical Service Life	> 10 yrs. (87,600 hrs)
Isolation	Output-Case & Input-Output 1500VDC Input-Case 500VDC

Electrical (Output)

Output Nominal (op)	110	220
Output Volts (AC)	110 - 120	220 - 240
Output Amps	2.6 cont. / 4.0 peak	1.3 cont. / 2.0 peak
Output Frequency (Crystal Controlled)	60 ± 1.0 Hz	50 ± 1 Hz
Output Type	Quasi-Sine Wave	
Regulation (Line & Load)	< +/- 0.5%	
Duty Cycle	Peak 20% for 10 min max Continuous 100% for 24 hours per day	
Efficiency	> 85% @ Maximum Output	
Ground Fault Current	Max 6 mA between Neutral and Ground	

Mechanical Specification

Length	8.1 in / 20.6 cm
Width	7.7 in / 19.6 cm
Height	4.33 in / 11.0 cm
Clearance	1 inch (2.5 cm) all around
Material	Marine Grade Aluminium
Finish	Black Anodize / Powder Epoxy Coat
Fastenings	All 18-8 Stainless Steel
Weight	11.0 lb / 5.0 kg
Connections	Dual Decora Style Receptacles OR Standard IEC 320 Plugs for 220VAC
Warranty	3 years

Available From:



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