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# INV-SW

# Sinewave Inverter

## Description

The INV-SW family of DC/AC Inverters includes models from 150VA to 2kVA with inputs of either 12 or 24Vdc. All units in the range are certified to comply with the automotive electromagnetic compatibility directive. The slimline design with a height of just 70mm further ensures their suitability for vehicle mount applications. The anodized aluminium case helps minimise the weight. The 2kVA units are only 5.2kgs. The units have a high peak power capability enabling them to be used for motor type loads which require a relatively large start up current. If the load demands too much power the inverter will shut down in order to protect itself. Once the overload condition is cleared the inverter will automatically restart. The units are also protected against short circuit of the output and reverse polarity of the input. To safeguard the battery source the input voltage is monitored. The inverter will automatically shut off should the low threshold be reached. An advance warning of the batteries low voltage state is signalled via LED. The INV-SW inverters can also be turned on and off remotely.



- High Peak Current Capability
- e-mark for Vehicle Use
- True Sinewave Output
- Low Profile Design

## Selection Table

Part Number	Max Continuous Power	Input Voltage	Output Voltage	Dimensions (Width x Height x Depth)
INV-SW 150-12	150VA	12VDC	230VAC	120 x 70 x 245mm
INV-SW 150-24	150VA	24VDC	230VAC	120 x 70 x 245mm
INV-SW 300-12	300VA	12VDC	230VAC	240 x 70 x 245mm
INV-SW 300-24	300VA	24VDC	230VAC	240 x 70 x 245mm
INV-SW 600-12	600VA	12VDC	230VAC	340 x 70 x 245mm
INV-SW 600-24	600VA	24VDC	230VAC	340 x 70 x 245mm
INV-SW 1200-12	1200VA	12VDC	230VAC	390 x 70 x 245mm
INV-SW 1200-24	1200VA	24VDC	230VAC	390 x 70 x 245mm
INV-SW 2000-12	2000VA	12VDC	230VAC	455 x 70 x 245mm
INV-SW 2000-24	2000VA	24VDC	230VAC	455 x 70 x 245mm

## Options Table

Code	Description
/US12.....	Bypass module for auto-switcover to mains when available. (See page 3 for further details)



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# INV-SW

# Sinewave Inverter

## Technical Data

### Technical Data - 12Vdc Input

	INV-SW 150-12	INV-SW 300-12	INV-SW 600-12	INV-SW 1200-12	INV-SW 2000-12
Input Voltage	12VDC				
Input Voltage Range	11 - 15VDC				
Maximum Input Current	18A	35A	70A	140A	220A
Battery Low Voltage (Advance Warning)	12V				
Inverter Disconnect at Low Battery	10.5V				
Inverter Reconnect at Charged Battery	12.5V				
Standby Current Consumption (No Load)	2.4VA	3.6VA	4.2VA	10.8VA	18VA
DC Fuse Protection	1 x 20A	1 x 40A	2 x 40A	4 x 40A	8 x 40A
Continuous Output Power Rating	150VA	300VA	600VA	1200VA	2000VA
Peak Output Power Rating	300VA	600VA	1200VA	1800VA	3000VA
Output Voltage	225Vac				
Frequency at Nominal Input	50Hz ±1%				
Max. Output Current (Continuous/Peak)	0.7/1.5A <sub>eff</sub>	1.4/3A <sub>eff</sub>	2.8/5.6A <sub>eff</sub>	5.6/11.2A <sub>eff</sub>	9.3/18.6A <sub>eff</sub>
Efficiency	Above 88%	Above 88%	Above 88%	Above 88%	Above 88%
Connection to Battery	Cigarette lighter	Pole Terminal	Pole Terminal	Pole Terminal	Pole Terminal
Output Power Outlet Type	1 x Schuko	1 x Schuko, 1 x Euro	1 x Schuko, 1 x Euro	1 x Schuko, 1 x Euro	1 x Schuko, 1 x Euro
Fan Cooling	No	No	Yes	Yes	Yes
Can be Operated by Remote Control	No	Yes	Yes	Yes	Yes
Weight	1.3kg	2.7kg	3.5kg	4.5kg	5.2kg
E Mark Registration Number	E1 024372				

### Technical Data - 24Vdc Input

	INV-SW 150-24	INV-SW 300-24	INV-SW 600-24	INV-SW 1200-24	INV-SW 2000-24
Input Voltage	24VDC				
Input Voltage Range	12 - 30VDC				
Maximum Input Current	9A	18A	35A	70A	110A
Battery Low Voltage (Advance Warning)	23V				
Inverter Disconnect at Low Battery	21V				
Inverter Reconnect at Charged Battery	25V				
Standby Current Consumption (No Load)	3.6VA	4.8VA	6VA	12VA	12.8VA
DC Fuse Protection	1 x 15A	1 x 20A	2 x 20A	4 x 20A	8 x 20A
Continuous Output Power Rating	150VA	300VA	600VA	1200VA	2000VA
Peak Output Power Rating	300VA	600VA	1200VA	1800VA	3000VA
Output Voltage	225Vac				
Frequency at Nominal Input	50Hz ±1%				
Max. Output Current (Continuous/Peak)	0.7/1.5A <sub>eff</sub>	1.4/3A <sub>eff</sub>	2.8/5.6A <sub>eff</sub>	5.6/11.2A <sub>eff</sub>	9.3/18.6A <sub>eff</sub>
Efficiency	Above 88%	Above 88%	Above 88%	Above 88%	Above 88%
Connection to Battery	Cigarette lighter	Pole Terminal	Pole Terminal	Pole Terminal	Pole Terminal
Output Power Outlet Type	1 x Schuko	1 x Schuko, 1 x Euro	1 x Schuko, 1 x Euro	1 x Schuko, 1 x Euro	1 x Schuko, 1 x Euro
Fan Cooling	No	No	Yes	Yes	Yes
Can be Operated by Remote Control	No	Yes	Yes	Yes	Yes
Weight	1.3kg	2.7kg	3.5kg	4.5kg	5.2kg
E Mark Registration Number	E1 024372				

Every effort is made to ensure that the information provided within this technical summary is accurate. However, ET must reserve the right to make changes to the published specifications without prior notice. Where certain operating parameters are critical for your application we advise that they be confirmed at the time of order. ET specialises in modifying its proven platforms to suit your needs. Please contact our office if your requirement is non-standard. Please note that your actual unit may differ from those shown.