



KISAE Abso Inverter-Chargers

Integrated
technology
in one
package

KISAE Abso inverter-chargers convert 12V battery power to True Sine Wave AC household power, allowing you to run loads up to 3000 watts. Available in both high and low frequency variants, they feature a built-in multi-stage charger to ensure batteries are recharged safely and efficiently, a low battery alarm and shutdown to prevent total battery discharge, an overload and over-temperature shutdown to ensure that the inverter will not become overheated or subjected to power demands beyond its rated capability, AND an integrated transfer switch with supplementary breaker. This provides for a smooth transition between shore power and battery power, while the automatic AC load sensing feature will ensure battery capacity is maximized.

The product's efficient design and compact footprint allows for installation in a variety of locations. The digital display can be mounted anywhere for convenient remote control. The Abso inverter/charger is designed to offer reliable AC power and battery charging to boats, RVs, trucks, residential homes and cabins.



INVERTING AND CHARGING

Kisae combines the best of both worlds, uniting its true sinewave DC to AC power inverter with its smart Abso battery charger technology into one compact package; one that offers the convenience of producing utility grade household power from the battery and the ability to replenish the battery once it runs down.

THE PERFECT BALANCE OF POWER



AC LOAD SENSING = LONGER BATTERY LIFE

KISAE Inverter-Charger's unique load sensing feature reduces the No Load current draw when loads less than 10 watts are attached. This feature checks the load connected to the inverter-charger: if the load is $>10W$, then the inverter remains ON, but if the load is $<10W$, it will shut down the output, ensuring that only minimal power is drawn from the battery.



It is not commonly known that power inverters can drain your batteries even when no AC load is connected to them. If you are using the inverter-charger in an off-grid application when battery life is vital, a high no load current draw can be very detrimental.

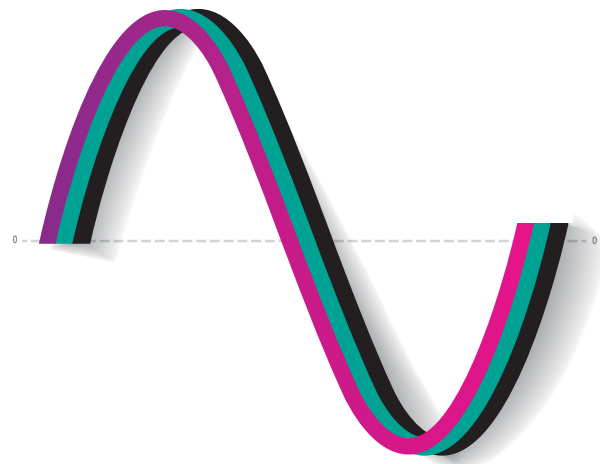
HIGH AND LOW FREQUENCY VARIANTS

High frequency design inverter-charger products offer compact size and weight. Low frequency design inverter-charger products are ideal for heavy-duty loads and for recharging large battery banks.



THE TRUE POWER OF KISAE

The KISAE Abso Inverter/Chargers feature true sinewave output, identical to or better than electrical power provided by the local utility company. This waveform is ideal for operating audio/video applications and ensuring motor loads run at optimal efficiency, meaning potentially longer equipment life.



Abso Inverter-Chargers



True Sine Wave Output
High Frequency Designs
Commercial / Residential / Leisure Use

Inverter-Charger (High Frequency)	120 VAC Series		230 VAC Series	
	IC 121040	IC 122055	IC 121040i	IC 122055i

AC Output

AC Output Power (Continuous)	1000W	2000W	1000W	2000W
AC Output Power (Peak)	2000W	4000W	2000W	4000W
AC Output Voltage/Frequency	120VAC / 60 Hz	120VAC / 60 Hz	230VAC / 50 Hz	230VAC / 50 Hz
AC Output Current	8.3A	16.6A	4.3A	8.7A
AC Output Waveform	True Sine Wave (<3% THD)	True Sine Wave (<3% THD)	True Sine Wave (<3% THD)	True Sine Wave (<3% THD)
Peak Efficiency	90%	90%	90%	90%

DC Input

Voltage (Nominal)	12.5Vdc	12.5Vdc	12.5Vdc	12.5Vdc
Operation Range	10.5 - 15.5Vdc	10.5 - 15.5Vdc	10.5 - 15.5Vdc	10.5 - 15.5Vdc
Inverter Standby Current	< 1.5A	< 1.5A	< 1.5A	< 1.5A

Protection

Input Undervoltage Shutdown	10.5/11.0Vdc	10.5/11.0Vdc	10.5/11.0Vdc	10.5/11.0Vdc
Inverter Overvoltage Shutdown	15.5Vdc	15.5Vdc	15.5Vdc	15.5Vdc

Display Panel

Indicator	Status, Display
Digital Display (LED)	Input Voltage, Output Power, Warning and Error Code

Battery Charger

Charger Voltage Range	13.5 - 14.4V	13.5 - 14.4V	13.5 - 14.4V	13.5 - 14.4V
Floater Voltage Range	13.4 - 13.8V	13.4 - 13.8V	13.4 - 13.8V	13.4 - 13.8V
Charger Current	40A	55A	40A	55A
Charger Battery Type	Gel, Flooded, AGM, Fixed	Gel, Flooded, AGM, Fixed	Gel, Flooded, AGM, Fixed	Gel, Flooded, AGM, Fixed
AC Input Voltage/Frequency	120VAC / 60Hz	120VAC / 60Hz	230VAC / 50Hz	230VAC / 50Hz

AC Transfer Switch

Transfer Time	< 30ms	< 30ms	< 30ms	< 30ms
Transfer Relay Rating	30A	30A	16A	16A

Regulatory Compliance

Markings	cETLus	cETLus	CE	CE
Conformance	UL & CSA Standards	UL & CSA Standards	LVD, EMC	LVD, EMC

Enclosure

Weight	12.5 lbs.	14.5 lbs.	5.7 Kg	6.6 Kg
Dimension	9.0 x 18.8 x 4.5"	9.0 x 18.8 x 4.5"	230 x 478 x 114mm	230 x 478 x 114mm



IC 121040 : 1000W Sinewave
Inverter with 40A Charger



IC 122050 : 2000W Sinewave
Inverter with 55A Charger



IC 121040i : 1000W Sinewave
Inverter with 40A Charger



IC 122050i : 2000W Sinewave
Inverter with 55A Charger

Abso Inverter-Chargers



True Sine Wave Output

Low Frequency Designs

Commercial / Residential / Leisure Use

Inverter-Chargers (Low Frequency)	120 VAC Series		230 VAC Series	
	IC 1220100	IC 1230150	IC 1230150i	IC 244090i

AC Output

AC Output Power (Continuous)	2000W	3000W	3000W	3500W
AC Output Power (Peak)	4000W	6000W	6000W	7000W
AC Output Voltage/Frequency	120VAC / 60 Hz	120VAC / 60 Hz	230VAC / 50 Hz	230VAC / 50 Hz
AC Output Current	17A	25A	13.0A	15.2A
AC Output Waveform	True Sine Wave (<3% THD)	True Sine Wave (<3% THD)	True Sine Wave (<3% THD)	True Sine Wave (<3% THD)
Peak Efficiency	90%	90%	90%	90%

DC Input

Voltage (Nominal)	12.5Vdc	12.5Vdc	12.5Vdc	25.0Vdc
Operation Range	10.5 - 16.5Vdc	10.5 - 16.5Vdc	10.5 - 16.5Vdc	21.0 - 33.0Vdc
Inverter Standby Current	< 3.5A	< 3.5A	< 3.5A	< 2.5A

Protection

Input Undervoltage Shutdown	10.5Vdc	10.5Vdc	10.5Vdc	21.0Vdc
Inverter Overvoltage Shutdown	16.5Vdc	16.5Vdc	16.5Vdc	33.0Vdc

Display Panel

Indicator	Battery Power, Charging, Fault			
Digital Display (LCD)	Input Voltage, Output Power, Error Message			

Battery Charger

Charger Voltage Range	14.2 - 16.0Vdc	14.2 - 16.0Vdc	14.2 - 15.5Vdc	28.4 - 32.0Vdc
Float Voltage Range	13.4 - 13.8Vdc	13.4 - 13.8Vdc	13.4 - 13.8Vdc	26.8 - 27.6Vdc
Charger Current	100A	150A	150A	90A
Charger Battery Type	Gel, Flooded, AGM	Gel, Flooded, AGM	Gel, Flooded, AGM	Gel, Flooded, AGM
AC Input Voltage/Frequency	120VAC / 60Hz	120VAC / 60Hz	230VAC / 50Hz	230VAC / 50Hz

AC Transfer Switch

Transfer Time	< 20ms	< 20ms	< 20ms	< 20ms
Transfer Relay Rating	30A	30A	20A	20A

Regulatory Compliance

Markings	cETLus	cETLus	CE	CE
Conformance	UL & CSA Standards	UL & CSA Standards	LVD, EMC	LVD, EMC

Enclosure

Weight	51.9 lbs.	66.4 lbs.	30.2 Kg	30.2 Kg
Dimension	15.4 x 13.4 x 7.8"	15.4 x 13.4 x 7.8"	392 x 340 x 197mm	392 x 340 x 197mm



IC 1220100 : 2000W Sinewave Inverter with 100A Charger



IC 1230150 : 3000W Sinewave Inverter with 150A Charger



IC 1230150i : 3000W Sinewave Inverter with 150A Charger



IC 244090i : 3500W Sinewave Inverter with 90A Charger