

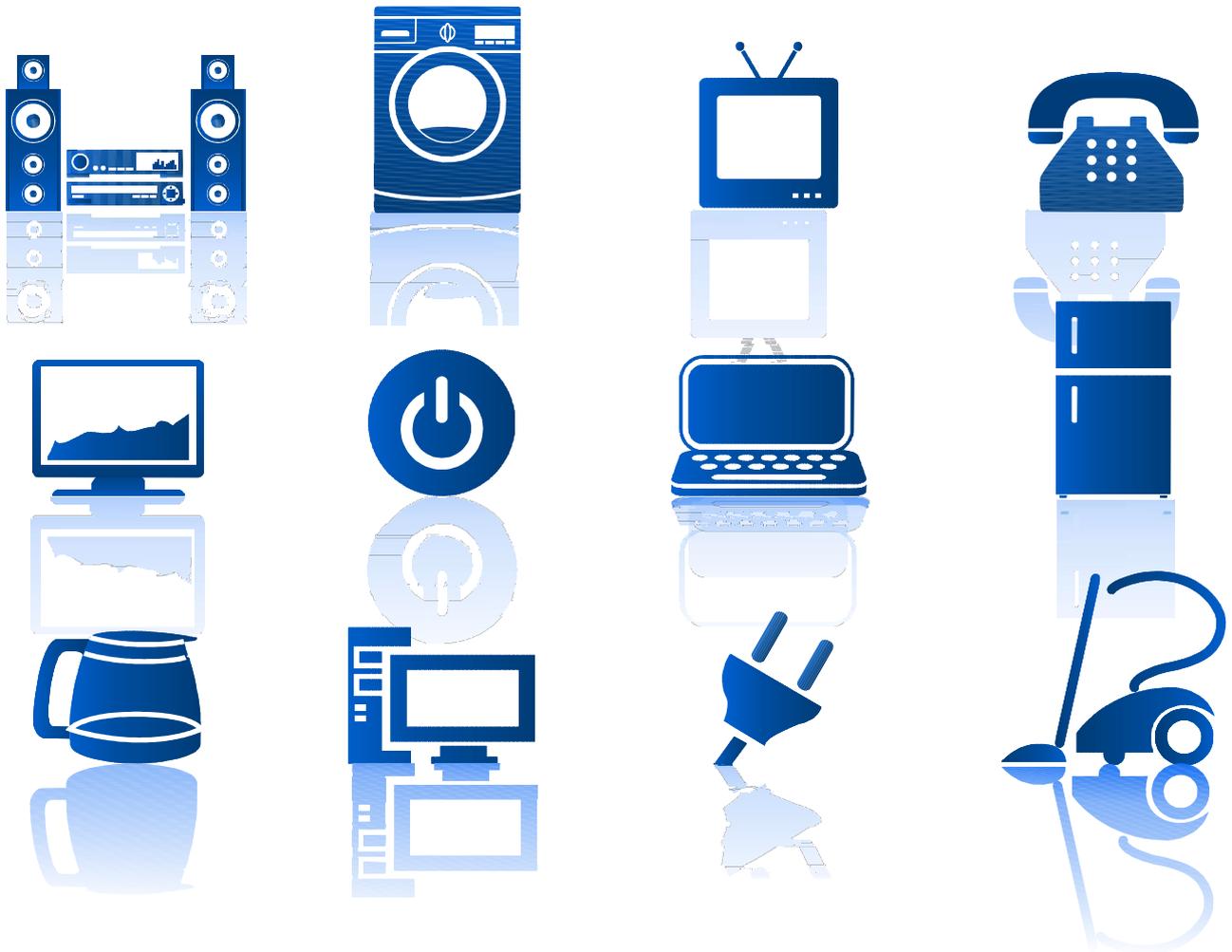
ECO SW Series

Fully programmable inverter/charger



Main features

- Fully programmable inverter/charger
- LCD display to see and change parameters
- High overload ability up to 200% rated power
- Automatic Voltage Regulator (AVR)
- Solar input with MPPT Charge controller (Optional)
- Intelligent battery charging
- Uses PFC (power factor correction) for charger
- 8 to 10ms typical transfer time
- Time delay before transfer when AC resumes
- Battery priority or AC priority available for off grid solar
- Auto Generator Starter
- Solar priority available
- Remote Control (OPTIONAL)
- Wifi external module (OPTIONAL)



Applications



- Pure sine wave (THD<3%)
- Microprocessor control
- 4 stages charger: bulk, absorption, floatation and equalization
- Auto-Test Auto Function
- Typical 8 mS transfer, Max. 10mS
- Full, sustainable power for continuous backup
- LCD Display (Indicates: VDC batteries, IDC, VAC input and output, Frequency, % battery charge, % load on output, watts on output, fault code, inverter status, etc.)
- LED Indicators (Load, Invert, Line, Fault)
- Solar Power Server RS232 (Optional)
- Our ECO SW has programmable voltages on every charger state and load profiles for all types of batteries: Lead Acid, AGM1/AGM2, GEL, GEL Euro, Lithium and USER, allowing to set absorption a floatation voltage by the user.
- High efficiency charger
- Automatic Voltage Regulator with Wide Input Range AVR series.
- Electronic protections: Output shortcircuit, Battery discharged, Overload, Overvoltage, over temperature, high battery voltage.
- Multiple acoustic alarm: Low bat and High bat, Overload, Over temp and fault.
- 150% @ 10 s overload capacity
- Adjustable charging current 0 - 50 max.
- Inverter-Line Transfer Delay
- Compatible with generators
- Priority Mode Batteries (Solar Energy Management)
- Energy saving mode (Power saver)
- MPPT charge controller 30-100A / 145VDC (Optional)
- Adjustable input frequency tolerance
- Automatic re-start after overloads and after battery discharge once the input voltage is normal.
- Automatic shutdown for low battery and programable protection against excessive battery discharge (complete shutdown).
- Wifi plug monitoring internet connection App (iOS and Android).
- Back feed protection (Input-Output wiring inversion)

AC Output Range:

There are different programmable AC output ranges for different kinds of loads. It can be customized:

120V models: 105V / 110V / 115V / 120V

220V models: 220V / 230V / 240V

AC/Battery Priority:

Our inverter is designed AC priority by default. This means, when AC input is present, the battery will be charged first, and the inverter will transfer the input AC to power the load.

The AC priority and Battery Priority switch is available upon request. When you choose battery priority, the inverter will inverting from battery despite the AC input.

Protection against:

Peak voltage, transients, voltage sags, electrical noise, blackouts, surges, etc.

Characteristics

Model ECO SW		1012	2012	2024	3024	4024	5024	6048	7548	10096	120096
		1512	2512	2524	3524	4524	5524	6548	8048		
Rated power		1000W 1500W	2000W 2500W	2000W 2500W	3000W 3500W	4000W 4500W	5000W 5500W	6000W 6500W	7500W 8000W	10000W	12000W
Input	Voltage	Adjustable 85VAC min- 145VAC max						Adjustable 170 Vac min -290 Vac max Warning: The INPUT voltage must be supplied by a split phase transformer 120-240VAC, NOT from a 3 phase transformer. Contact your supplier for other alternatives.			
	Frequency	45-63Hz (Mains mode) 50/60Hz ±1% (Battery mode)									
Output	Voltage	VAC adjustable 105-110- 115-120 ± 2% (Battery mode) VAC adjustable min (70-95)- max(130-145)V (Mains mode)						AC 110/120 ± 2% / AC 220/230/240 ± 2% (Battery mode) AC 110/120± 15% V 230/240 ± 15% V (Mains mode)			
	Output waveform	Pure sine wave (Distortion <3%)									
Efficiency		>85%									
Type of battery		Any (Lead/Acid, AGM, GEL, Lithium, etc) Personalized Adjustable settings									
Battery rated voltage		12 VDC	24 VDC				48 VDC	96 VDC			
Charging current		Can be set 0-5-10-20-30-40-50A (40A Max for 1500W)						Can be set 0-5-10-20-30-40-50A			
Protection		Overload, short circuit, battery high and battery low voltage, AC input high and low voltage protection, over temperature									
Conversion method		Interactive									
Overload capacity		Up to 150% for 60 s / over 150% for 10 s / 200% for 1 s									
Solar charge controller (Optional)	Type	MPPT solar controller									
	Current	60A	80A		100A						
	PV Input	Voc 145V									
	Input power	12V:60A 720W	24V:80A 1920W		24V:100A 2400W	48V:100A 4800W		96V:100A 9600W			
Communication port		RS232 / RJ45/ WIFI Plug / USB / / RS485 / SNMP (Optional)									
Working environment	Temperature	-15°c ~ +50°c									
Dimensions (mm)		580x370x260						740x350x275			
Weight (Kg)		14.5	18	18	20	24	29	39	48		
		16	19.5	19.5	22	25	31	41	51.5		

NOTE: Especifications may change without previous notice.