



The battery of the future

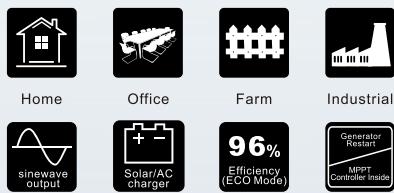
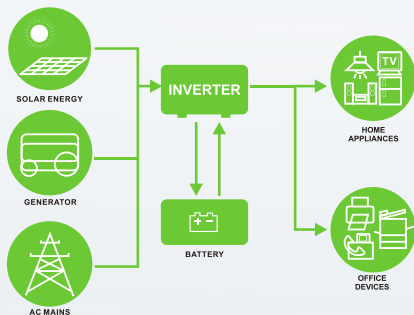
ECO Hybrid Inverters

ECO GS Series 1~12KW

Features:

- ◆ GS Series AC/Solar charging Off grid Hybrid Inverter.
- ◆ LED/LCD display, Enhanced functions setting via LCD, Man-machine intelligent design.
- ◆ Built-in 40A/60A optional MPPT solar charger controller.
- ◆ LCD shows the solar capacity.
- ◆ 5 stages adjustable AC charging current. AC charging also can be closed.
- ◆ AC/DC priority modes can be set.
- ◆ Generator restart signal(Dry contact).
- ◆ 3 times peak power. Strong loading capacity.
- ◆ Overload, output short-circuit protection.

Application:



Specifications

Pure Sine Wave Hybrid charger Inverter

Model	ECOSG1000	ECOSG2000	ECOSG3000	ECOSG4000	ECOSG5000	ECOSG6000	ECOSG8000	ECOSG10KW	ECOSG12KW
Power Rating	1000W	2000W	3000W	4000W	5000W	6000W	8000W	10KW	12KW
AC Input	Input Voltage/Waveform pure sine wave (utility or generator)								
Nominal input Voltage	120/230VAC					230VAC			
Low Line Disconnect	85Vac±4%(Normal) or 80Vac±4%(Wide) for 120Vac					184Vac±4%(Normal) or 135Vac±4%(Wide) for 230Vac			
Low Line Re-connect	184Vac±4%(Normal) or 135Vac±4%(Wide) for 230Vac					95Vac±4%(Normal) or 85Vac±4% (Wide) for 120Vac			
High Line Disconnect	194Vac±4%(Normal) or 145Vac±4%(Wide) for 230Vac					194Vac±4%(Normal) or 145Vac±4%(Wide) for 230Vac			
Max AC input Voltage	136Vac±4%(Normal) or 145Vac±4%(Wide) for 120Vac					263Vac±4%(Normal) or 263Vac±4%(Wide) for 230Vac			
Frequency	263Vac±4%(Normal) or 263Vac±4%(Wide) for 230Vac					230Vac for Max270Vac			
AC Charger	Nominal Charge Current 20A/35A/50A/70A/90A(5 stages adjustable charging current)								
Over Charge Protection	Bat.V≥15.5VDC for 12V battery ; Bat.V≥31.0VDC for 24V battery, Bat.V≥62.0VDC for 48V battery ; beeps 0.5s every 1s & fault after 60s								
Solar Charger	Rated Charge Current 40A 60A 60A 60A 60A 60A 60A 60A 60A								
PV Input Voltage range	15VDC-40VDC for 12VDC, 25VDC-75VDC for 24VDC, 55-145VDC for 48V								
Max.PV open circuit array voltage	12V for 40VDC, 24V for 75VDC, 48V for 145VDC								
Charger mode	MPPT								
PV Low Voltage Re-connect	PV≥Bat.V=3V								
PV Low Voltage Disconnect	PV = Bat.V								
Efficiency	≥97%								
Charger	Nominal Charger Current 20A/35A/50A/70A/90A(According to the inverter model), 5 stages adjustable charging current								
Over charge Protection	Bat.V≥15.5VDC/31VDC/62VDC,beeps 0.5s every 1s & fault after 60s								
Efficiency	Efficiency (Battery Mode) ≥87%								
	Efficiency (Line Mode) >98%								
Battery Voltage	Nominal DC Input Voltage 12/24/48VDC			24/48VDC			48VDC		
Low Battery Alarm	10.5VDC±0.3VDC for 12VDC, 21VDC±0.6VDC for 24VDC, 42VDC±1.2VDC for 48VDC								
Low DC input shut-down	10VDC±0.3VDC for 12VDC, 20VDC±0.6VDC for 24VDC, 40VDC±1.2VDC for 48VDC								
High DC input Alarm & Fault	16VDC±0.3VDC for 12VDC, 32VDC±0.6VDC for 24VDC, 64VDC±1.2VDC for 48VDC								
Transfer Time	AC to DC		20ms(max)						
	DC to AC		15ms(max)						
System Parameter	Over-Load Protection 110%<load<150%, beeps 0.5s every 1s, and Fault after 60s off the output, load>150%, beeps 0.5s every 1s, and Fault after 20s								
	Output Short Circuit Protection Current limit(Fault after 10s)								
	Surge Rating(10s) 1:3(VA)								
	Power Saver Load≤25W(Enabled on "P/S auto"Setting of Remote control)								
	Protections Low battery,over charging,over load,over temp								
	Indicators LED+LCD Display								
General Specifications	Operating Temperature Range 0°C to 40°C								
	Storage Temperature -15°C~60°C								
	Operation humidity 5% to 95%(non-condensing)								
	Audible Noise 60dB max								
	cooling Forced air,variable speed fan								
Dimension(L*W*H)	480*336*190mm			530*400*190mm			627*416*204mm		
Net Weight(kg)	19.5kg	23.5kg	28.0kg	30.0kg	35.5kg	39.0kg	52.5kg	58.5kg	66.5kg

◆ Product specifications are subject to change without further notice.



72- Evington Road,
LE2 1HH Leicester, UK



Mobile : + 44 (0) 7888429958
Landline : + 44 (0)116 366 9980



E-mail : aazib@ecoess.co.uk
Website : www.ecoess.co.uk



/ecoess.co.uk