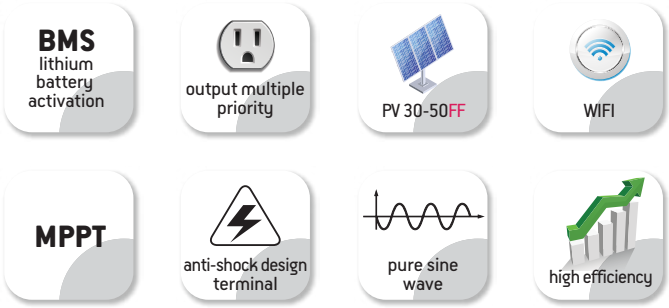
ECO-ICM

Off grid
Solar Inverter

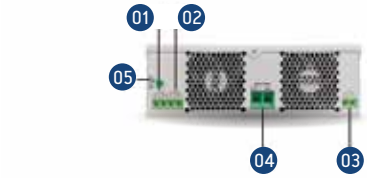
2500-24HV, 2500VA, 100A/30-500Vdc SOLAR, 60A AC CHARGE





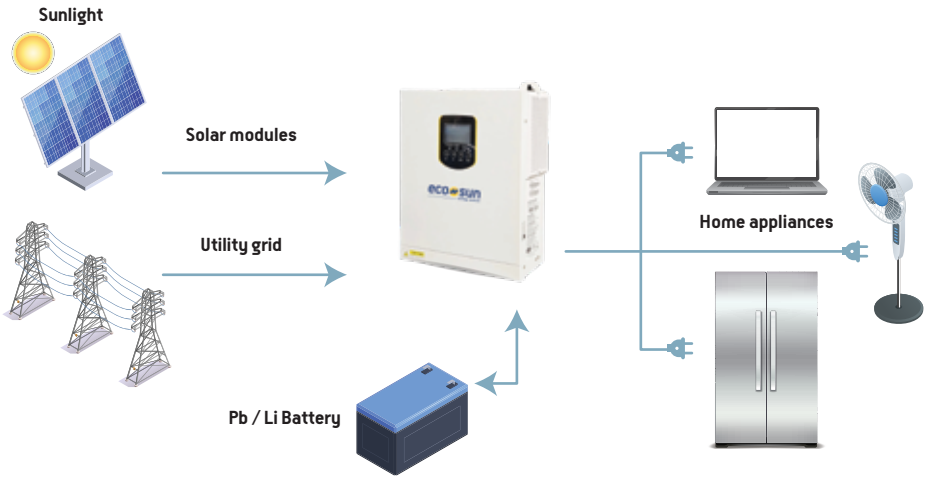
Features

- Lithium battery activation function, which can be triggered by PV
- Pure Sine Wave
- PV input 500Vdc max
- Built-in MPPT 60A - 100A
- Detachable dust cover for harsh environment
- Wifi remote monitoring optional
- Support multiple output priority: UTL, SOL, SBU, SUB
- EQ function to optimize battery performance and extend lifecycle



01. AC input
02. AC output
03. PV input
04. Battery input
05. Grounding

Solar System Connection

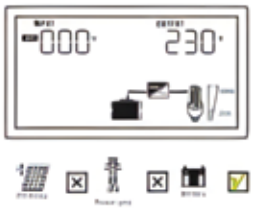




A



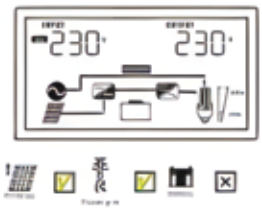
B



C



D



ECO-ICM

Wall Mounted Integrated Solar Inverter Technical Specification
Built-in MPPT Solar Controller

MODEL Rated Power	ECO-ICM 1500/12V	ECO-ICM 1500/24V	ECO-ICM 2500/24V	ECO-ICM 3500/24V
Capacity	1500VA/1500W	1500VA/1500W	2500VA/12500W	3500VA/3500W
Parallel capacity	NO	NO	NO	NO
Lithium battery activation	YES (by PV)	YES (by PV)	YES (by PV)	YES (by PV)
Lithium battery communication	NO	NO	NO	NO
INPUT				
Nominal voltage	230VAC			
Acceptable voltage range	170 - 280 VAC (for personal computer) 90 - 280VAC (for home appliances)			
Frequency	50/60Hz (auto sensing)			
OUTPUT				
Nominal voltage	220 / 230VAC ±5%			
Surge power	3000VA	3000VA	5000VA	7000VA
Frequency	50/60Hz			
Waveform	Pure sine wave			
Transfer time	10ms (for personal computer) 20ms (for home appliances)			
Peak efficiency (PV to INV)	96%			
Peak efficiency (Battery to INV)	93%			
Overload protection	5s@>=140% load / 10s@100% load ~140% load			
Crest factor	3:1			
Admissible power factor	0.6~1 (inductive or capacitive)			
BATTERY				
Battery voltage	12Vdc	24Vdc		
Floating charge voltage	13.5Vdc	27Vdc		
OverCharge protection	16.5Vdc	32Vdc		
Charging method	CC/CV			
SOLAR CHARGER & AC CHARGER				
Solar charge type	MPPT			
Max. PV array power	2000W	2000W	3000W	4000W
Max. PV array open circuit voltage	500VCD			
PV array MPPT voltage range	30VCD ~ 500VCD			
Max. solar input current				
Max. solar charge current	100A	60A	100A	100A
Max. AC charge current	60A	60A	60A	60A
Max. charge current (AC + PV)	100A	60A	100A	100A
PHYSICAL				
Dimension,D x W x H	330x278x98			
Cartoon Dimension,D X W X H	400x365x174			
Net Weight (kgs)	3.8	3.8	3.95	3.95
Communication interface	RJ45 for Wifi			
ENVIRONMENT				
Operating Temperature Range	-10^{0}C to 55^{0}C			
Storage Temperature	-15^{0}C to ~60^{0}C			
Humidity	5% to 95% relative humidity (non-condensing)			

Product features may change without notice
ECO//SUN Ltd. is not responsible for any typographical errors
This document supersedes all previous ones