ECO10000W(SR) AIO Inverter Specification Sheet-US Standard



ECO10000W(SR) AIO Inverter Specification sheet

Parallel Mode	
Permitted Parallel number	1-6

AC Specifications	
Rated Input Voltage	120/240Vac (Single-Phase/Split-Phase)
Input Voltage Range	90-140Vac
Frequency	50Hz/60Hz(Auto Detection)
Maximum Bypass Current	63A

PV Input Data	
Number of MPPTs per Inverter	2
Maximum PV Input Current	22A
PV Operating Voltage Range	125-425Vdc
Maximum PV Open Circuit Voltage	500Vdc
Wiring Protection	Reverse polarity protection

AC Output	
Output Voltage Waveform	Pure sine wave
Rated Output Power (VA)	10000
Rated Output Power (W)	10000
Switching Time	10ms (typical value)
Rated Output Voltage (Vac)	120/240Vac (Single-Phase/Split-Phase) (Settable)
Output Frequency Range(Hz)	50Hz/60Hz(Settable)
Maximum Efficiency of Battery Inverter	92%
Overload Protection	After overload protection is enabled, the inverter output will be restored after 3mins, and after 5 times overload, the output will be off until the inverter is restarted. (102%< load <110%) ±10%: An error will be reported, and the output will be turned off after 5 minutes; (110%< load <125%) ±10%: An error will be reported, and the output will be turned off after 10 seconds; Load > 125%: An error will be reported and the output will be turned off after 5 seconds.
Peak Power	20000VA
Loaded Motor Capability	6HP
Power Saving Mode Self-consumption	Load≤50W

essvipsupport@eco-worthy.com.cn
https://www.eco-worthy.com/

WIFI Port Specification	
PIN1	5V
PIN2	GND
PIN7	RS485-A
PIN8	RS485-B

RS485/CAN Port Specification	
PIN1	RS485-B
PIN2	RS485-A
PIN4	CANH
PIN5	CANL
PIN7	RS485-A
PIN8	RS485-B

Battery Specifications	
Battery Type	Lithium-ion Battery/Lead-acid Battery/User-defined Battery (Settable)
Rated Battery Voltage	48Vdc
Voltage Range	40Vdc-60Vdc (Settable)
Maximum PV Charge Current	200A (Settable)
Maximum Mains/Generator Charge Current	120A (Settable)
Maximum Mix Charge Current	200A (Settable)

Certified Specifications	
Certification	IEC62109-1, IEC62109-2, and UL 1741
EMC Certification Level	EN61000-6-1, EN61000-6-3, and FCC 15 class B
RoHS	Yes
Protection Level	IP20, for indoor use only
Operating Temperature Range	-10℃~55℃, >45℃ derating
Noise	<60dB
Heat Dissipation	Intelligent Fan
Built-in interface	RS485/CAN/USB/Dry contact control
Dimension (L*W*D)	620mm*445mm*130mm
Weight	27kg

Lead-acid Battery Specification	Sealed Lead-acid Battery (SLD)	Colloidal Lead-acid battery (GEL)	Vented Lead-acid Battery (FLD)	User-defined (User)
Over-voltage Disconnection Voltage	60V	60V	60V	60V
Equalizing Charge Voltage	58V	56.8V	58V	40-60V (Settable)
Boost Charge Voltage	57.6V	56.8V	57.6V	40-60V (Settable)
Floating Charge Voltage	55.2V	55.2V	55.2V	40-60V (Settable)
Under-voltage Alarm Voltage	44V	44V	44V	40-60V (Settable)
Under-voltage Disconnection Voltage (04 fault)	42V	42V	42V	40-60V
Discharge Limit Voltage	40V	40V	40V	40-60V (Settable)
Over-discharge Delay Time	5s	5s	5s	1-30s (Settable)
Equalizing Charge Duration	120 minutes	-	120minutes	0-600 minutes (Settable)
Equalizing Charge Cycle	30 days	-	30 days	0-250 days (Settable)
Boost Charge Duration	120 minutes	120 minutes	120 minutes	10-600 minutes (Settable)

Lithium Battery	NCM13	NCM14	LFP16	LFP15	LFP14	User-Defined (User)
Over-voltage disconnection voltage	60V	60V	60V	60V	60V	60V
Equalizing Charge Voltage	-	-	-	-	-	40V-60v (Settable)
Equalizing Charge Cycle	-	-	-	-	-	0-250 days (Settable)
Boost Charge Voltage	53.2V	57.6V	56.8V	53.2V	49.2V	40V-60v (Settable)
Floating Charge Voltage	53.2V	57.6V	56.8V	53.2V	49.2V	40V-60v (Settable)
Under-voltage Alarm Voltage	43.6V	46.8V	49.6V	46.4V	43.2V	40V-60v (Settable)
Low-voltage Disconnection Voltage	38.8V	42V	48.8V	45.6V	42V	40V-60v (Settable)
Discharge Limit Voltage	36.4V	39.2V	46.4V	43.6V	40.8V	40V-60v (Settable)
Over-discharge Delay Time	30s	30s	30s	30s	30s	1s-30s (Settable)
Boost Charge Cycle	120 minutes (Settable)	120 minutes (Settable)	120 minutes (Settable)	120 minutes (Settable)	120 minutes (Settable)	10-600 minutes (Settable)