

Formosa 13.7 Kwh HESS Specification

Product: Grid & Solar Hybrid Energy Storage System (HESS)

- Uninterruptible power storage system for homes, small community and industrial applications
- Using best quality safety & explosion-proof lithium iron phosphate battery. No fire, No explosion
- 110V & 230V dual-voltage output, easy to use for general household appliances and equipment.
- Modular designing, can be designed and used in parallel for more capacity.



Formosa HESS 13.7 Kwh

HESS specifications

HESS Model	FHESS13700401
AC Output	
Rated Power	6000 W
Surge Rating	9000 W
Waveform	Pure sine wave
Nominal Output Voltage	110 / 230 VAC ($\pm 5\%$ RMS)
Output Frequency	50Hz / 60Hz ± 0.3 Hz
Inverter Efficiency (Peak)	$\geq 89\%$
AC Number of sockets	2 PORT (110V) / 1 PORT (230V)
AC INPUT	
Voltage	90~280 VAC
Frequency Range	50Hz / 60Hz (Auto sensing)
Transfer time AC to DC	20ms(typical)

Charge Method	
AC Grid	AC Input
PV Panel	DC Input
Charge Mode	
Maximum Solar Charge Current	30A
Maximum AC Charge Current	26A (230V 6KW)
Charging mode	CC-CV
BATTERY (Module)	
Cell Type	Formosa LiFePO4 Prismatic Battery 3.2Vdc 67Ah/cell
Battery System Voltage	51.2 Vdc
Battery System Capacity	268 Ah
Battery System Composition	one module 16S4P
Working Voltage Range	40 Vdc ~ 57.6 Vdc
Max Charging Voltage	57.6 Vdc
Max Charging Current	100 A
Standard Discharge Current	6KW
Exception Protection	OV、UV、DOCP、COCP、SC 、Abnormal Temperature
Solar Panel Input	
Max PV Array Power	15KW
Max PV Array Input Current	15A(TYPE)_20A (MAX) / Groups
MPPT Range @ Operating Voltage	120 V ~ 480 VDC
Max PV Array Open Circuit Voltage	500V ±2Vdc
MPPTs	2
ESS dimension & certification	
Life Cycling (0.5C 25°C)	3000 cycles
Dimension W x D x H	55 cm x 74 cm x 87 cm
weight	260 kg
Charge Temperature	0°C ~ 45°C
Operation Temperature	-10°C ~ 55°C
Storage Temperature	-10°C ~ 45°C
Comply Security	MSDS, UN38.3, RoHS, IEC62619, IEC62133 UL1642, UL1973
Communication	RS232, RS485, WIFI, ENTHERNET
Warranty	5 years