



HYBRID SOLAR INVERTER – Where Sunshine Meets Backup Power.

PURE SINE WAVE

Hybrid solar inverter



Features:

-  Cost-effective solution design
-  Rounded corner design, exquisite appearance
-  Multiple parameters can be adjusted according to user needs to adapt to different occasions
-  Support lithium battery communication
-  External WIFI, generator self-start dry contact function
-  Real-time display of actual load power greatly improves user perception
-  Pure sine wave output, can adapt to different loads
-  Output short-circuit protection function

MODEL	FT2012EMH	FT3024EMH	FT4024EMH	FT5548EMH	FT6248EMH	FT11048EMH
Rated input voltage	220/230/240VAC					
Voltage range	90-280VAC±3V(normal mode) 170-280VAC±3V(UPS mode)					
Frequency range	50Hz/60Hz(Adaptive)					
OUTPUT						
Battery Inverter	1600W	3000W	3600W	5500W	6200W	11000W
Photovoltaic Inverter	1600W	3000W	4500W	6500W	6500W	11000W
Peak Power	3200VA	6000VA	7200VA	11000VA	12400VA	22000W
Output voltage	220/230/240VAC±5%					
Output frequency	50/60Hz±0.1%					
Waveform	pure Sine Wave					
Switching time (adjustable)	Computer equipment 10ms, home appliances 20ms					
Overload capacity	Battery Mode：11s@105%~150% Load;2s@150%~200% Load;400ms@>200% Load					
GRID-CONNECTED OPERATION						
Output voltage	No grid connection		220/230/240VAC			
grid feeding voltage range			195-253VA			
grid feeding frequency range			49-51±1Hz/59-61±1Hz			
nominal output current			15.7A	23.9A	26.9A	47.8A
power factor range			>0.99			
maximum conversion efficiency (DC/AC)			98%			
BATTERY						
Rated voltage	12Vdc	24Vdc	24Vdc	48Vdc	48Vdc	48Vdc
constant voltage charging voltage (configurable)	14.1Vdc	28.2Vdc	28.2Vdc	56.4Vdc	56.4Vdc	56.4Vdc
float charging voltage (configurable)	13.5Vdc	27Vdc	27Vdc	54Vdc	54Vdc	54Vdc
PV CHARGER						
PV charging method	MPPT	MPPT	MPPT	MPPT	MPPT	Dual MPPT
Maximum input power of PV	2000W	3000W	5000W	7500W	7500W	2×5500W
MPPT input voltage range	40~500Vdc	40~500Vdc	60~500Vdc	60~500Vdc	60~500Vdc	90~500Vdc
optimal Vmp operating range	300~400Vdc	300~400Vdc	300~400Vdc	300~400Vdc	300~400Vdc	300~400Vdc
maximum PV input voltage	500Vdc	500Vdc	500Vdc	500Vdc	500Vdc	500Vdc
maximum PV input current	13A	13A	18A	27A	27A	18A/18A
maximum PV charging current	100A	100A	120A	100A	120A	150A
maximum mains charging current	60A	60A	100A	100A	100A	150A
maximum charging current	100A	100A	120A	100A	120A	150A
DISPLAY						
LCD Interface	Can display operation mode/load/input/output, etc.					
INTERFACE						
RS232	Baud rate 2400					
Expansion slot communication interface	Lithium battery BMS communication card, WIFI card, dry contact card, etc.					
Parallel interface	No parallel function					Parallel function
ENVIRONMENTAL PARAMETERS						
Operating ambient temperature	-10℃~+50℃					
Operating environment humidity	20%~95%(No condensation)					
Storage temperature	-15℃~+60℃					
noise	<45dB					
PHYSICAL PARAMETERS						
Depth × width × height (mm)	403*304*114mm		433*330*138mm			601*360*163.5mm
Standards and certifications	EN-IEC 60335-1, EN-IEC 60335-2-29, IEC 62109-1					