

OFF GRID HYBRID INVERTER

EP Series 3.5KW / 5.5KW Plastic PV 60-500Vdc



RS232/RS485



100A MPPT



High Efficiency



WiFi Optional



Pure sine wave



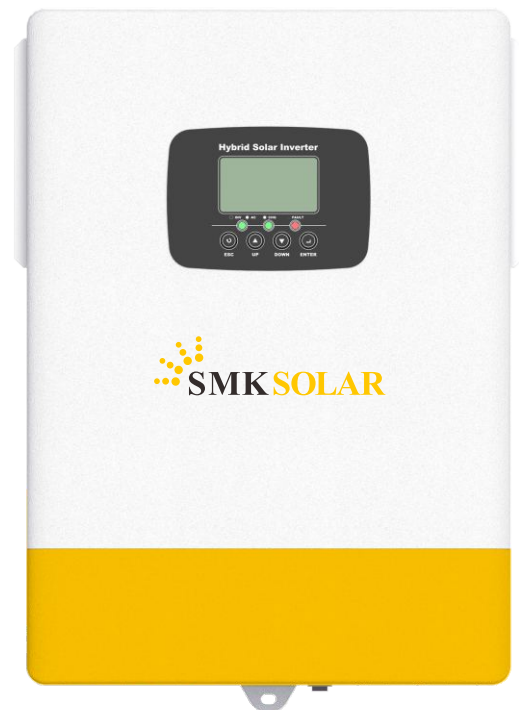
PV 60-500Vdc



Lithium Battery
Activation



Anti-shock
Design



Product Features

- Elegant plastic design
- Pure sine wave
- Power factor 1.0
- PV input Voltage 60Vdc-500Vdc
- Built-in MPPT 100A
- Lithium Battery Activation
- Compatible work with LifePO4 Battery via RS485
- Capable to work without battery
- 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

Technical Data

MODEL	EP3500-24L	EP5500-48L
Capacity	3.5KVA/3.5KW	5.5KVA/5.5KW
Parallel Capability	NO	NO
INPUT		
Nominal Voltage	230VAC	
Acceptable Voltage Range	170-280VAC(For personal Computer);90-280vac(For Home Appliances)	
Frequency	50/60 Hz(Auto sensing)	
OUTPUT		
Nominal Voltage	220/230VAC±5%	
Surge Power	7000VA	11000VA
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%~140% load	
Crest Factor	3:1	
Admissible Power Factor	0.6~1 (inductive or capacitive)	
BATTERY		
Battery Voltage	24VDC	48VDC
Floating Charge Voltage	27VDC	54VDC
OverCharge Protection	33VDC	63VDC
Charging Method	CC / CV	
Lithium Battery Activation	YES	
Lithium Battery Communication	YES(RS485)	
SOLAR CHARGER & AC CHARGER		
Solar Charger Type	MPPT	
Max.PV Array Power	4000W	5500W
Max.PV Array Open Circuit Voltage	500VDC	
PV Array MPPT Voltage Range	60VDC~500VDC	
Max.Solar Input Current	15A	18A
Max.Solar Charge Current	100A	100A
Max.AC Charge Current	80A	80A
Max.Charge Current	100A	100A
PHYSICAL		
Dimensions,D x W x H(mm)	350*290*125.5	433*310*125.5
Package Dimensions,D x W x H(mm)	457*416*230	540*436*230
Net Weight(Kg)	5.5	7.6
Communication Interface	RS232+RS485	
ENVIRONMENT		
Operating Temperature Range	(-10°C to 50°C)	
Storage temperature	(-15°C ~ 50°C)	
Humidity	5% to 95% Relative Humidity (Non-condensing)	

Shenzhen SMK New Energy Technology Co.,Ltd

Factory Add: 3rd Floor, Block 49, Baigongao Industrial Park, Longhua District, Shenzhen, Guangdong China

Tel: +86-755 23768132

E-mail: info@smksolar.com

Whatsapp/Wechat:+86 19166212831