

IESS-05K10N

# Power Tank



## IESS-05K10N | PORTABLE POWER



### 3 In 1 Household ESS, Plug and Play

400W PV MPPT Controller  
500W Hybrid Inverter  
1000Wh Lithium Battery, Back Up Time up to 2 Hours



### Rapid Charge

PV and Grid Dual Charge, up to 500W  
Battery Full Charged in 2 Hours



### Class-A LiFePO4 Battery

More than 6000 Cycles, up to 10 Years  
LiFePO4 Battery, High Safety and Performance



### Grid Compatibility and Excellent AC Output

Phase Voltage Withstand Voltage 380V,  
Self-adapting to Unstable Power Grid  
THDv<3%, Self-adapting to Weak Grid  
Intelligent Power Control Algorithm,  
Self-adapting to Household Appliances



### High Performance Inverter

Pure Sine Wave  
UPS Class Switch Time: <20mS

Model	IESS-05K10N
<b>Efficiency</b>	
MPP Tracking Efficiency	99.0%
Max. Battery Mode Conversion Efficiency	88.0%
<b>PV input</b>	
Max. PV Input Power	400W
Max. PV Input Voltage	60V
MPPT Voltage Range	11-60V
Start-up Voltage	11V
Number of MPP Trackers	1
<b>AC Input</b>	
Max. Grid Input Voltage (Absolute Maximum Ratings)	380Vrms
Input Voltage Range	90-280Vac
OVP Voltage	280±10Vac
Maximum AC Input Power(Bypass Mode+Battery Charge)	1000W
Maximum AC Input Current(Bypass Mode+Battery Charge)	6A
Nominal Operating Frequency	50Hz/60Hz
<b>AC Output</b>	
Nominal AC Output Power (Inverter Mode)	500W
Max. Output Apparent Power (Inverter Mode)	600VA
Nominal AC Output Voltage (Inverter Mode)	230VAC
Total Voltage Harmonic Distortion (Inverter Mode)	<3%
Nominal AC Output Current (Inverter Mode)	2.2A
Max. Output AC Output Current Limit (Inverter Mode)	3.0A
Nominal AC Frequency	50Hz
Switch Time	≤20ms
Surge Power	600VA
Overload Capacity	CC 3.0A output @ >500W Latch output @ <165Vac
<b>Battery</b>	
Battery Type	LiFePO4
Rated Battery Voltage	3.2VDC
Rated Capacity	314Ah
Battery Energy	1000Wh
Cycle Life	6000
<b>General Data</b>	
Operating Temperature Range	-10~+60 C , >40 C Power Derating
Max. Operating Altitude	4000m , >2000m Power Derating
SOC Display	LED
Cool Method	Intelligent fan Cooling
Noise	<45dB(1m)
Authentication Level	IEC62619/IEC62368/UN38.3
<b>Protection</b>	
Battery Fuse	Yes
Grid OVP	Yes
PV Over Voltage Protection	Yes
Overload Protection	Yes
Short Circuit Protection	Yes
Over-Temperature Protection	Yes
Surge Protection	AC:Type III