

IESS-05K10U

Power Rover



IESS-05K10U | 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



100% grade A Cells Inside

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

High Performance Inverter

Pure Sine Wave
UPS Class Switch Time: <20ms



Rapid Charge

PV and Grid Dual Charge, up to 500W
Battery Full Charged in 2 Hours
AC input power to load (bypass) and battery charge from grid up to 1000W



Grid Compatibility and Excellent AC Output

Phase voltage withstand voltage 380V,
self-adapting to unstable power grid
Strong overload capability and smart overload protection
Intelligent power control algorithm,
self-adapting to household appliances

Model	IESS-05K10U
Efficiency	
MPP Tracking Efficiency	≥87.0%
Max. Battery Mode Conversion Efficiency	87.0%
PV Input	
Max. PV Input Power	400W
Max. PV Input Voltage	60V
MPPT Voltage Range	11~60V
Max. PV Input Current	15A
Number of MPP Trackers	1
AC Input	
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
AC Output	
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	500W<Load≤600W @ 60s 600W<Load≤690W @ 30s >690W @ 20s with output voltage under 165Vac >690W @ 2s with output voltage under 155Vac
DC Output	
2*USB-A + 1*USB-C	5V/3A, Max 15W
2*DC5521	12V/5A, Max 60W
Battery	
Battery Type	LiFePO4
Rated Battery Voltage	3.2VDC
Rated Capacity	314Ah
Battery Energy	1000Wh
Cycle Life	6000
General Data	
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
Protection	
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 DC:Type III