

1.2KW/1.28KWH WALL-MOUNTED PV ALL-IN-ONE ENERGY STORAGE SYSTEM

YJC-HES-L-A-1.2kWA/1.28kWh



4-IN-1 INTEGRATED DESIGN
Inverter, MPPT solar charger, battery charger and battery all integrated into one enclosure – far fewer parts, far less wiring, much faster install.



EFFORTLESS, WALL-MOUNTED PLUG-AND-PLAY
Sleek wall-mounted format and pre-wired layout remove the need for extra brackets or complex wiring – ideal for balcony and small-home installs.



SEAMLESS SOLAR-TO-HOME & GRID BACKUP
Solar charges the battery; the built-in PCS/DC-AC inverter supplies household loads or hands off to the grid automatically when needed – simple energy flow, reliable backup.



COMPACT, COST-EFFECTIVE HOME SOLUTION
Small footprint and integrated components lower both material and labour costs – a practical, affordable choice for modern households.



REAL-TIME MONITORING & INTUITIVE DISPLAY
High-contrast LCD screen monitoring shows voltage, current, frequency and system status for easy oversight and control.



RELIABLE THERMAL CONTROL & ROBUST HOUSING
Intelligent cooling fan, sturdy metal enclosure and BMS protections keep temperatures stable and protect the system in daily use – backed by common industry warranties.



Model	YJC-HES-L-A-1.2kVA/1.28kWh
AC Input Parameters	
Rated Voltage	230 Vac (208/220/230/240 Vac)
Voltage Range	90 ~ 280 Vac, settable
Connection Method	L + N + PE
Rated Grid Frequency	50 / 60 Hz
Maximum Input Current	10 A
PV Input Parameters	
Maximum PV Input Power	1000 W
Maximum PV Input Current	14 A
MPPT Voltage Range	20 ~ 100 Vdc
Maximum MPPT Efficiency	99.5%
Number of MPPT Trackers	1
AC Output Parameters	
Maximum Output Power	1.2 kVA
Rated Voltage	230 Vac (208/220/230/240 Vac)
Connection Method	L + N + PE
Rated Grid Frequency	Battery Mode: 50 / 60 Hz; Line Mode: Synchronized with grid
Total Harmonic Distortion (THD)	< 3% (linear load) / ≤ 5% (non-linear load, PF=0.7)
Power Factor	1.0
Efficiency	> 90.5% @ 1.2 kVA (Battery Mode) / 99% @ 1.2 kVA (Line Mode)
Battery Parameters	
Battery Type	LiFePO ₄
Nominal Voltage	12.8 V
Operating Voltage Range	10 ~ 14.6 V
Nominal Capacity	100 Ah
Nominal Energy	1.28 kWh
Charge Voltage	14.6 V
Maximum Charge Current	100 A
Charging Mode	2 ~ 60 A (Line Mode) + Max. 60 A (PV Mode), settable
General Parameters	
Dimensions (W × D × H)	448 × 332 × 152 mm
Weight	22 kg
IP Rating	IP21
Operating Temperature Range	-10 ~ 50 °C / 20% ~ 95% RH (non-condensing)
Storage Temperature Range	-15 ~ 60 °C
User Interface	LCD Display
Transfer Time	10 ms (UPS Mode) / 10 ms (Appliance Mode) / 10 ms (Generator Mode)
Communication Interface	RS232 (Baud rate: 9600)
Parallel Function	N/A
Activation Method	AC / PV Activation