

Mint-JKE05 | Mint-JKE10 |
Mint-JKE15 | Mint-JKE20 |

High-voltage battery for residential ESS



Secure your energy independence

Mint residential Energy Storage Systems (ESS) is a crucial component to improving energy resilience and reduce energy costs for homeowners.

Our smart efficient high voltage energy storage modules can be deployed with a wide range of industry standard inverters and power control systems.

More Reliable



- Advanced LiFePO4 technology
- Smart battery management system
- High quality facility with TS16949

More Flexible



- Modular structure, easier expansion
- Easy transportation, fast installation

Intelligent BMS



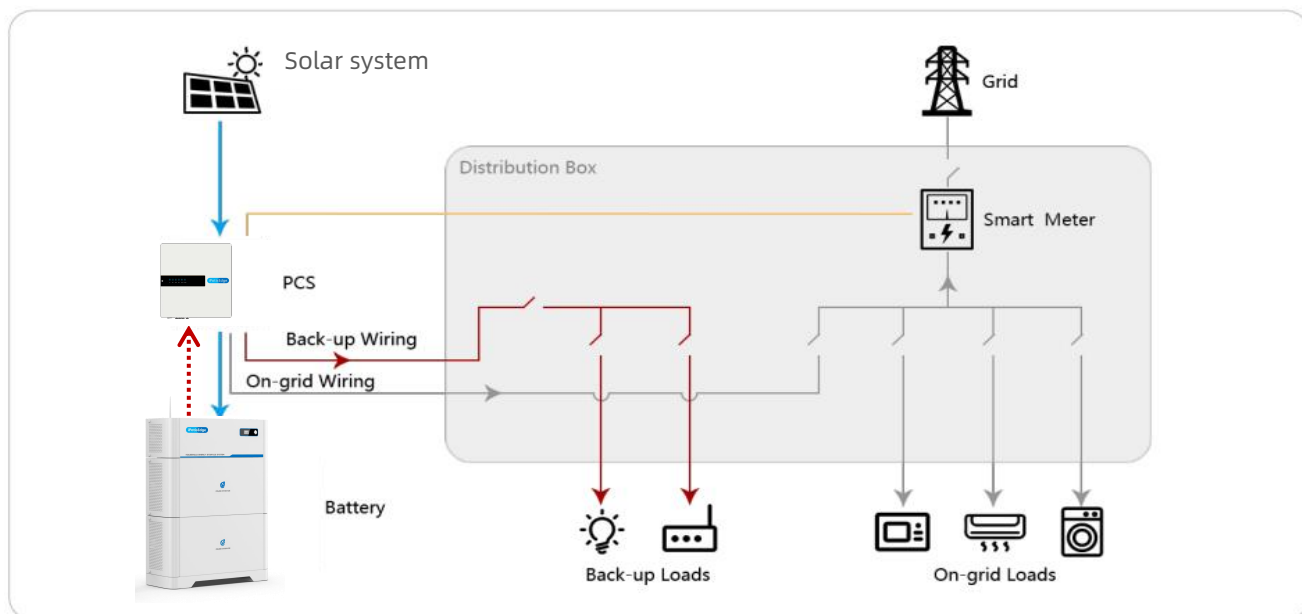
- Battery monitoring & protection
- Short circuit protection
- Wireless communication via APP

Comprehensive Service



- 10 years global limited warranties
- One stop service





Model	Mint-JKE05	Mint-JKE10	Mint-JKE15	Mint-JKE20
Battery Type	LiFePO4			
Battery module quantity	1	2	3	4
Nominal Voltage (V)	102.4	204.8	307.2	409.6
Nominal Capacity (Ah)	50			
Nominal Output Energy (KWh)	5.12	10.24	15.36	20.48
Electrical Parameters				
Voltage Range (V)	83.2~115.2	166.4~230.4	249.6~345.6	332.8~460.8
Charging & Discharging Current (A)	25@continue (Recommended)			
Charging & Discharging Current (A)	50@continue (Max)			
Mechanical Parameters				
Net Weight (±1.0 kg)	71	124	177	231
Dimension (W*D*H,±2.0 mm)	758*228*614	758*228*942	758*228*1270	758*228*1598
Ingress Protection	IP65			
Cooling	Natural Cooling			
Operation Condition				
Environment Temperature(°C)	Charge: 0~60, Discharge:-20~60, Storage:-20~60(< one month)			
Operation Humidity (RH)	5~95%			
Altitude (m)	< 2000			
Mounting Type	Floor-mounted			
Designed life	>10 years			
Certificates & Standards	IEC62619,IEC60730,IEC62040,EN61000-6-1,EN61000-6-3,UN38.3			

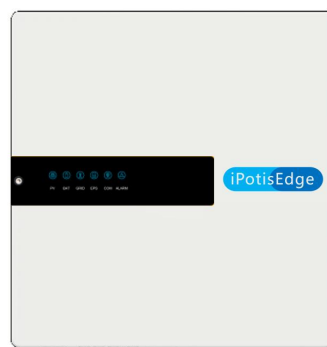
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Three Phase 5-10KW Hybrid Inverter

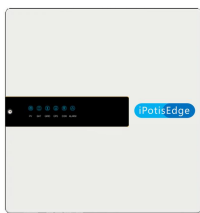
- ✓ Max efficiency 98.4%, battery efficiency 98%
- ✓ Max Charge/discharge current 50A
- ✓ Remote configuration and upgrade
- ✓ Reliable performance, High efficiency



Model	IPT-5K	IPT-6K	IPT-8K	IPT-10K
Efficiency				
Max. efficiency (PV to AC)	98.20%	98.20%	98.40%	98.40%
Eur. efficiency (PV to AC)	97.20%	97.20%	97.90%	97.90%
Max. efficiency (BAT)	98%			
Input (PV)				
MAX PV Power	8000W	9000W	12000W	15000W
Max PV voltage	1000V			
Max input current (input A/input B)	15A/15A	15A/15A	20A/30A	20A/30A
Max short current (input A/input B)	20A/20A		30A/40A	
MPPT voltage range	160V-950V			
No. of MPPT trackers	2			
String per MPP tracker	1+1		1+2	
Input (BAT)				
Nominal battery voltage	200V-600V			
Battery voltage range	150V-600V			
Max. charge/discharge current	25A/25A	25A/25A	50A/50A	50A/50A
Max. charge/discharge power	8000W/5200W	9000W/6300W	12000W/10500W	15000W/10500W
Lithium battery charge curve	Self-adaption to BMS			
Output (Grid)				
Nominal AC output power	5000W	6000W	8000W	10000W
Max. AC output apparent power	5500VA	6600VA	8800VA	10000VA
Max. AC output power (PF=1)	5500W	6600W	8800W	10000W
Max. AC output current	3*8.3A	3*10A	3*13.3A	3*15.2A
Rated AC voltage	380V / 400V			
AC voltage range	277V-520V (Adjustable)			
Rated grid frequency	50Hz / 60Hz			
AC frequency range	45Hz-55Hz/55Hz-65Hz (Adjustable)			
Grid connection	Three phase			
Power factor	>0.99 @rated power (Adjustable 0.8 LD - 0.8 LG)			
THDI	<3% (Rated Power)			

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Three Phase 5-10KW Hybrid Inverter

- ✓ Max efficiency 98.4%
- ✓ Max Charge/discharge current 50A
- ✓ Remote configuration and upgrade

Model	IPT-5K	IPT-6K	IPT-8K	IPT-10K
Output (Back up)				
Nominal output voltage	380V / 400V			
Nominal output frequency	50Hz / 60Hz			
Nominal output power	5000W	6000W	8000W	10000W
Nominal output current	3*7.6A	3*9.1A	3*12.2A	3*15.2A
Transfer time	10ms (typ) / 20ms (max)			
THDV	<3% (R Load), 5% (RCD Load)			
Protection				
Anti-islanding protection	Integrated			
AC overcurrent protection	Integrated			
AC short circuit protection	Integrated			
AC over-voltage protection	Integrated			
Surge Arrester	DC Type II, AC Type II			
Insulation detection	Integrated			
GFCI	Integrated			
AFCI	Integrated			
RSD	Optional			
General Data				
Dimensions (WxHxDmm)	530*550*212			
Ingress protection degree	IP65			
Working Temp. Range(°C)	-25~45			
Relative Humidity(%)	0~100			
Operating Altitude(m)	<4000m			
Cooling	Natural Convection			
Noise Level(dB)	<30			
PV connection way	MC4/H4			
Battery connection way	Dedicated DC connector			
HMI&COM				
Display	LED+APP (Bluetooth)			
Communication	BMS (CAN/RS485) Optional: WiFi/GPRS/4G/Ethernet, DI (DRM/RCR) / Meter (RS485), 1*DO, USB (Firmware upgrade)			
Certification				
Grid	IEC 61727, IEC 62116, EN 50549-1, VDE 4105, AS 4777, CEI 0-21, G98			
Safety	IEC62109-1&2, IEC62040-1, IEC62477-1			
Warranty	5 Years / 10 Years (Optional)			

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