

Energy Storage AC Coupler



Flexible

- Compatible lithium battery and lead-acid battery.
- Wireless communication, flexible control and monitoring system through APP.

Reliable

- No Fan Design, IP65 Protection Level.
- Battery and AC electrical isolation, safe and reliable.

Superior performance

- Full power charging and discharging current of battery can reach 100A.
- Off-grid, grid-connected dual-output.
- Out-of-network THDU is better than 3%, with inductive load.

Application Scenario



Villa



Communication base station



Nomadic area



Farm

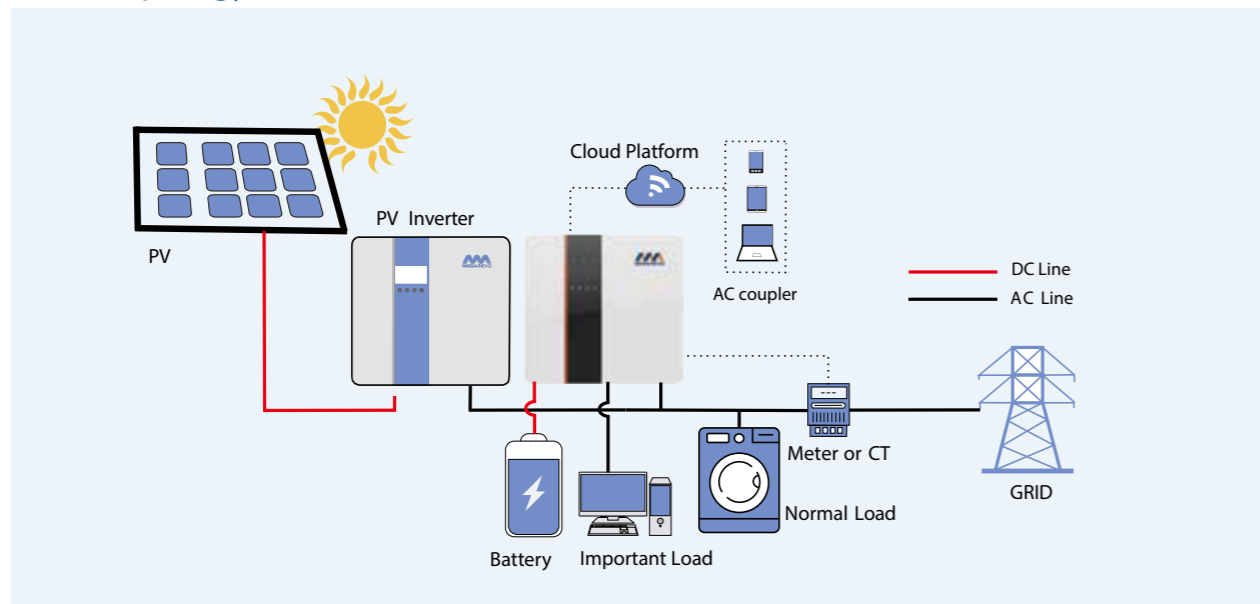


Household



Field power supply

Product Topology



Model	R3K6-BP	R5K-BP
Battery input data		
Battery type	Li-Ion or Lead-acid	
Nominal battery voltage	48V	
Max. charging voltage	≤ 60V (Configurable)	
Max. charging current	75A	100A
Max. discharging current	75A	100A
Battery capacity	50~2000 Ah	
Charging strategy for li-ion battery	Self-adaption to BMS	
AC output data (on-grid)		
Nominal power output	3680W	5000W
Max. Apparent power output	3680VA	5000VA
Max. Apparent power from utility grid	7360VA	9200VA
Nominal output voltage	230V	
Nominal output frequency	50/60Hz	
Max. AC current output	16A	22.8A
Max. AC current from utility grid	32A	40A
Output power factor	~1 (Adjustable from 0.8 leading to 0.8 lagging)	
Output THDI (@nominal output)	<3%	
AC output data (back-up)		
Max. output apparent power	3680VA	5000VA
Peak output apparent power	4416VA, 10sec	5500VA, 10sec
Automatic switch time	<10ms	
Nominal output voltage	230V(±2%)	
Nominal output frequency	50/60Hz(±0.2%)	
Max. output current	16A	22.8A
Output thdv (@linear load)	<3%	
Efficiency		
Max. efficiency	95.5%	
Protection		
Anti-islanding protection	Integrated	
Output over current protection	Integrated	
Output short protection	Integrated	
Output over voltage protection	Integrated	
General data		
Operating temperature range	-25~60°C	
Relative humidity	0~95%	
Operating altitude	≤ 4000m	
Cooling	Natural Convection	
Noise	<25dB	
User interface	LCD & APP	
Communication with BMS	RS485; CAN	
Communication with meter	RS485	
Communication with portal	Wi-Fi	
Weight	18.5kg	
Size (WXHXD)	550/200/515mm	
Mounting	Wall Bracket	
Protection degree	IP65	
Standby self consumption	<15W	
Topology	High Frequency Isolation	
Certifications & standards		
Grid regulation	AS4777.2, G83/G100, CEI0-21	
Safety	IEC62477, IEC62040	
EMC	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4	