


Single-phase HV grid-connected hybrid inverter

FEATURES


- ▶ IP65 outdoor installation, small size, lightweight and high efficiency;
- ▶ Multi communication interfaces, GPRS, WIFI, Ethernet, CAN, RS485;
- ▶ Visualized management of the operating status and intelligently upgrade and maintain the equipment;
- ▶ Self-adapt to various types of grid, and with a strong adaptability of weak grid;
- ▶ In parallel with several inverters, system has better scalability;
- ▶ Full power operation under 45°C with a new cooling method.




APPLICATIONS




High-end villa




Nomadic area




Residential electricity



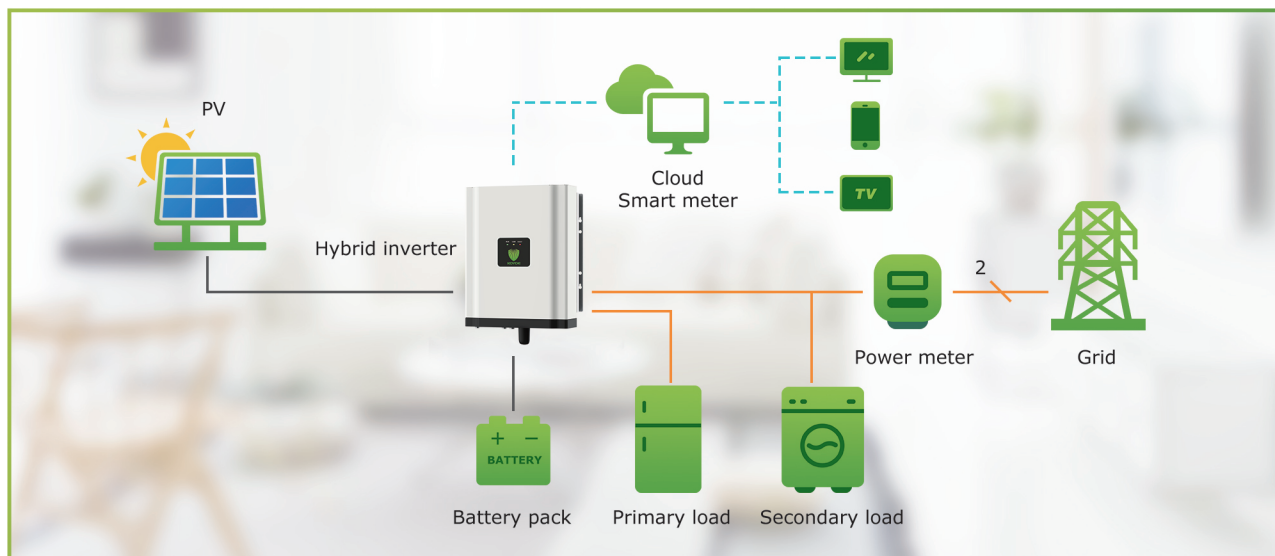
Telecommunication base station



Farm



Field power supply equipment



List	KY-1HYBrid-5k-H		
Efficiency	MPPT efficiency	99.90%	
	Max efficiency	97.60%	
	Battery charge & discharge efficiency	98.50%	
Battery port	Operating DC voltage range	85V-450V	
	Recommend battery voltage	200V	
	Max charge/discharge power	5000W/5500w	
	Max charge/diascharge current	23A/27A	
	Communication interfaces	RS485/CAN	
	Reverse connect protection	Y	
	PV port	Absolute maximum PV input voltage	550V
Operating MPPT voltage range		120V-500V	
Absolute maximum PV input power		6000W	
Rated PV input voltage		380V	
Number of MPPT trackers		2	
MaxPV input power for each MPPT		3300W	
MaxPV input current for each MPPT		12.5A	
Max input short circuit current for each MPPT		15A/15A	
DC connection type		Quick fit connector	
Input/Output AC		Grid connection type	Single phase
	Absolute maximum AC power	6000VA	
	Nominal AC power	5000W	
	Rated grid voltage/grid connected voltage range	230V/180V-280V	
	Rated grid frequency	50Hz/60Hz	
	Nominal grid current	21.7A	
	Nominal power factor and adjustable range	1 and 0.8leading -0.8lagging	
	THD	<3%	
	AC connection type	Quick fit AC circular	
	Backup output	Max apparent power	5000VA
		Rated AC voltage	230V
		Max AC output current	21.7A
		Peak power and duration	6000W/10s
Out frequency range		45Hz-55Hz/55Hz-65Hz	
Switch time		<10ms	
Connection type		Terminal block	
General date	Dimensions(W/H/D)mm	390*465*185	
	Weight	17kg	
	IP grade	IP65	
	Cooling	Nature cooling	
	Communication	WIFI(optional)/GPRS(optional)/Ethernet/Meter/DRM	
	Display/Monitoring	LED(optional)/APP/Web	
	Mounting	Wall bracket	
	Ambient temperature	-25°C-60°C(derating at 45°C)	
	Relative humidity	≤95%(non-condensing)	
	Altitude	Derating at 2000m	
	Acoustic noise emission level	<35dB @ 1m	
	Over voltage catagory	III (AC side) II (PV side)	
	Standby consumption	<10W	
Topology	Transformerless		
Standard warranty	5/10years		
Standard	Safety	IEC62190-1/-2,IEC62477-1	
	EMC	EN61000-6-2/-3,EN61000-3-2/-3	
	Grid	AS/NZS 4777.2 ,NRS 097-2-1:2017, CQC, GBT 34133-2017	