

The energy of the future



Cost-Effective HV PV MPPT





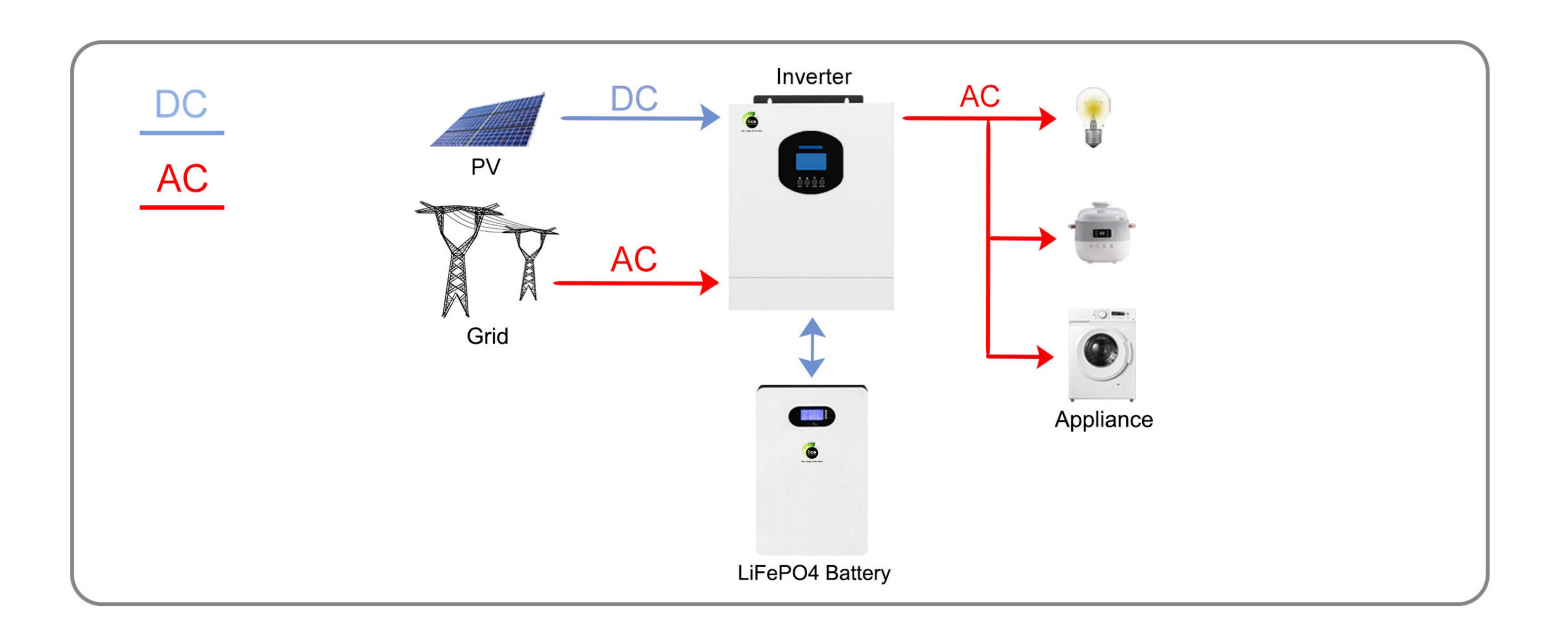




Support PV activation



Support battery mode





	3KW	6KW	10KW
Module	ECO-3KF1-L1	ECO-6KF1-L1	ECO-10KF1-L1
Battery			
Battery Voltage	24V	48V	48V
Battery Voltage Range	20~30V	40~58V	40~58VDC
Battery Type		L+N+PE	
Inverter			
Rated Power	3000VA	6000VA	10000VA
Surge Power	6000VA	12000VA	20000VA
Waveform		Pure sine wave	
AC			
AC Voltage Regulation (Battery Mode)		208/220/230/240Vac	
Frequency		50Hz / 60Hz	
Efficiency(Peak)		93.50%	
Transfer Time	1	Oms typical, 20ms Max	
Max PV Power	3000W	5500W	6000W*2
PV Open Circuit Voltage	450VDC	500VDC	500VDC
MPPT Range @ Operating Voltage	30-400Vdc	90-450Vdc	90~450Vdc (2 channels)
Max Solar Charge Current	80A	120A	120A
PV			
MPPT channels	1	1	2
AC Input Voltage		230VAC	
AC Charge Current	60A	100A	160A
Selectable Voltage Range	170~280VAC (For Personal Computers) 90~280VAC (For Home Appliance)		
Frequency	501	Hz / 60Hz (Auto sensing)	
Physical			
Dimension(D*W*H/mm)	270*95*350	350*115*425	400*170*620
Net Weight (kg)	6kg (about)	11kg (about)	16kg (about)
Communication Interface	USB/RS485		
Protection Degree	IP21		
Installation method	Wall Monted		
Humidity	5% to 95% Relative Humidity (Non-condensing)		
Operating Temperature	-10°C ~ 50°C		
Storage Temperature	-15°C ~ 60°C		

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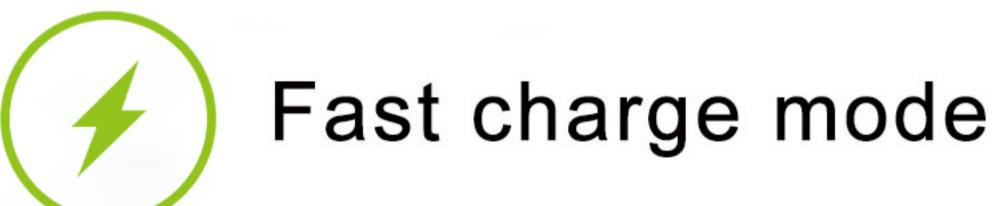






Max 6 Sets in Paralle Support AC and PV Charge

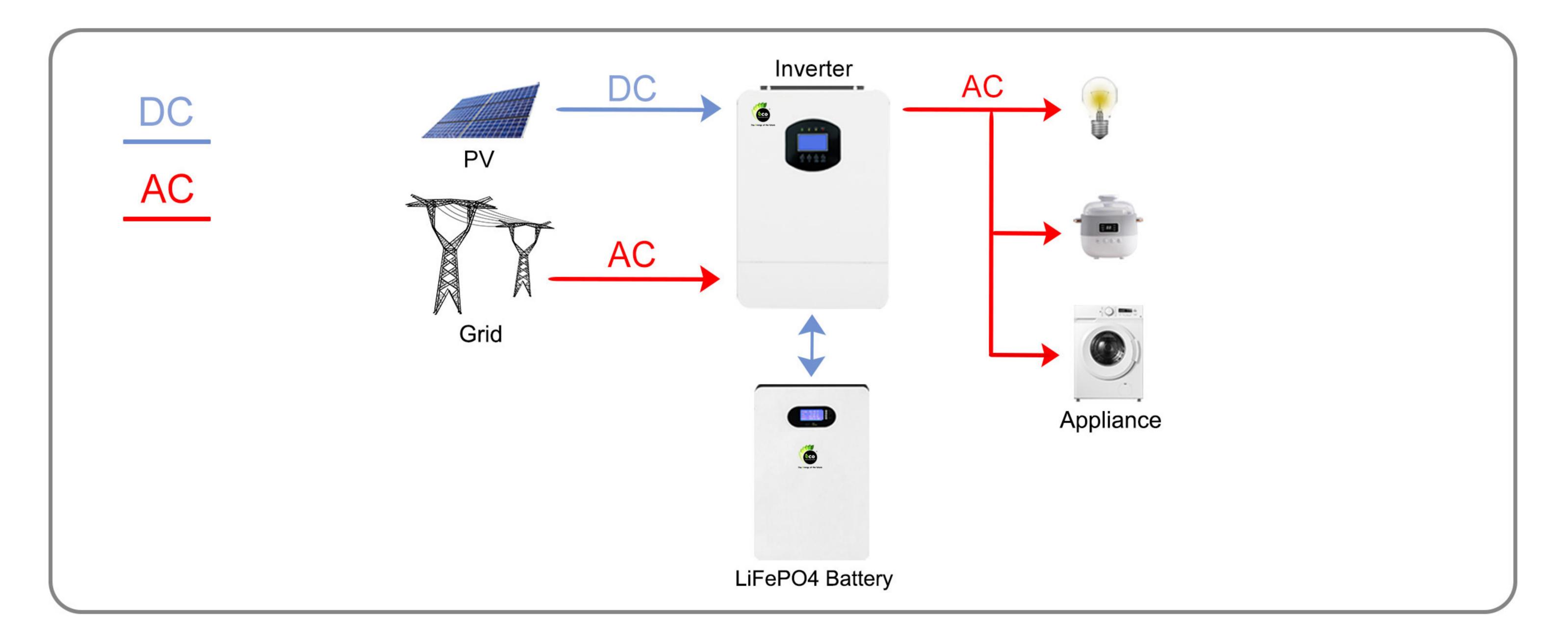












	3.6KW	5KW	11KW	
Module	ECO-3.6KF1-A1	ECO-5KF1-A1	ECO-11KF1-A1	
AC output				
Typical power output	3600W	5000W	11000W	
Typical voltage output		230VAC+/-5%		
Output frequency		50/60Hz		
Highest efficiency		94%		
Output wave		Pure sine wave		
Conversion time	Тур	oical 10mS, maximum 2	0mS	
Battery				
Battery typical voltage		48Vdc		
Battery voltage range		40~58Vdc		
Battery type	Lithiu	um battery/ Lead acid b	attery	
PV				
Max. PV power	4500W	5500W	5500W*2	
Controller voltage range	30~400Vdc	120~430Vdc	120~430Vdc	
PV max. output voltage		500Vdc		
MPPT channels		1		
PV max. charging current	60A	100A	100A	
AC input				
AC input voltage		230Vac		
AC input voltage range		185~264Vac		
AC input frequency	50/60Hz adaptive			
Others				
Max. number of parallels	/	6	3	
Waterproof	IP21			
Working temperature range	-10~50°C			
Storage temperature range	-10~60°C			
Humidity range	5% to 95% Relative Humidity (Non-condensing)			
Size/mm	300*110*360	335*125*480	505*170*535	
Weight/kg	8	12	22	

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IP65 Hybrid Inverter Waterproof Max 6 Sets in Parallel



2 channels HV PV MPPT controller



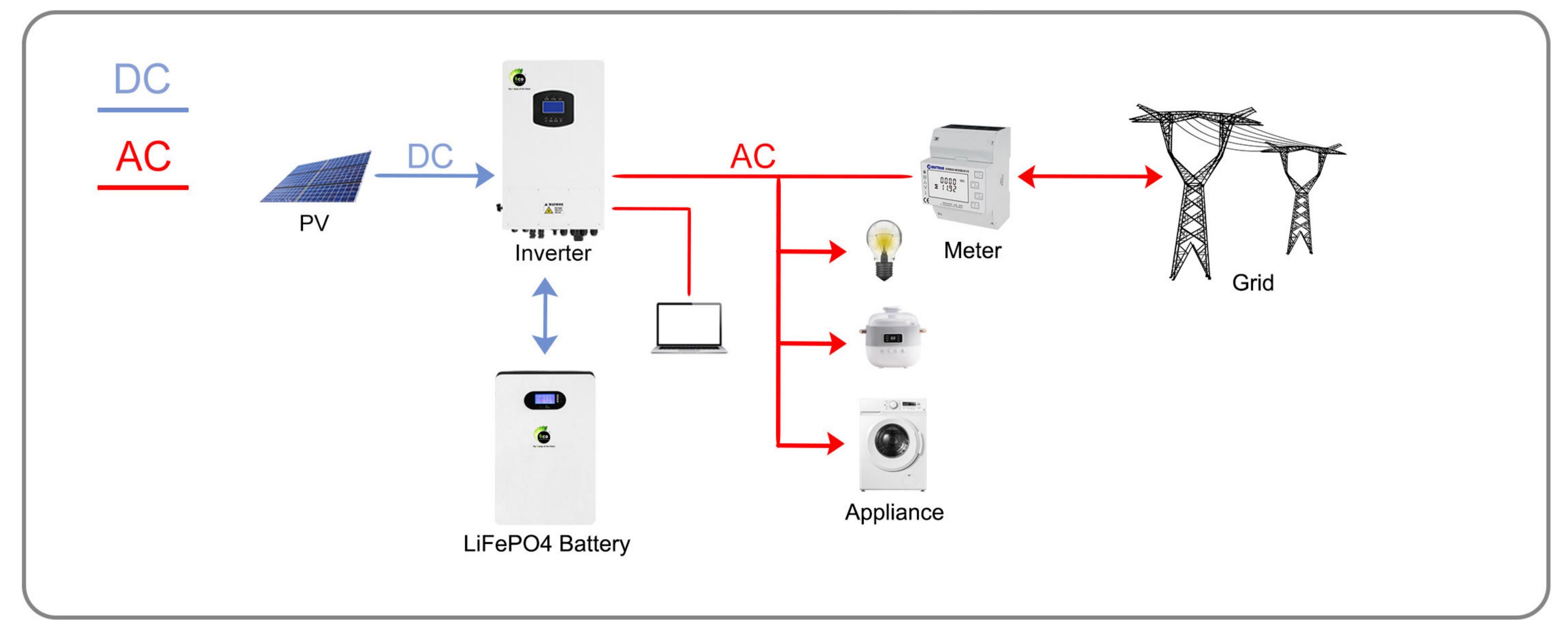
Fast charge current 100A



Support WiFi



On-grid/ Off-grid and UPS





	3.6KW	4.6KW	5KW	
Module	ECO-3.6KH1-A1	ECO-4.6KH1-A1	ECO-5KH1-A1	
Battery				
Battery Voltage		48VDC		
Battery Voltage Range		41.5~58.5VDC		
Battery Type	L	Li-ion Battery / LiFePO4 Battery		
Communication Interface		RS485/CAN		
Output/Input (AC)				
Rated Power	3960VA	5000VA	5500VA	
Surge Power	6000VA	8500VA	11000VA	
Waveform		Pure sine wave		
Rated Grid Voltage		230VAC		
Frequency		50Hz / 60Hz		
PV Input (DC)				
Max PV Power	5200W	6600W	7000W	
Max PV Voltage		500VDC		
Starting Voltage		150V		
MPPT Range		120~430VDC		
MPPT Quantity		2		
Max PV Current	110A	110A	120A	
Off-grid Output				
Max Output Power	3600W	4600W	5000W	
AC Input Voltage		230VAC		
Frequency	50Hz / 60Hz			
UPS Switching Time		< 20mS		
Overload Capacity	11	110% 30S/120% 10S/150% 80mS		
Efficiency				
Max Efficiency		98%		
Max Discharge Efficiency		95%		
MPPT Efficiency		98%		
Physical				
Dimension(D*W*H/mm)		350*230*580		
Net Weight (kg)		23.5kg		
Communication Interface	USB/RS485/WiFi			
Protection Degree	IP65			
Installation method	Wall Mounted			
Environment				
Humidity	5% to 95% Relative Humidity (Non-condensing)			
Operating Temperature		-10°C ~ 50°C		
Storage Temperature		-15°C ~ 60°C		

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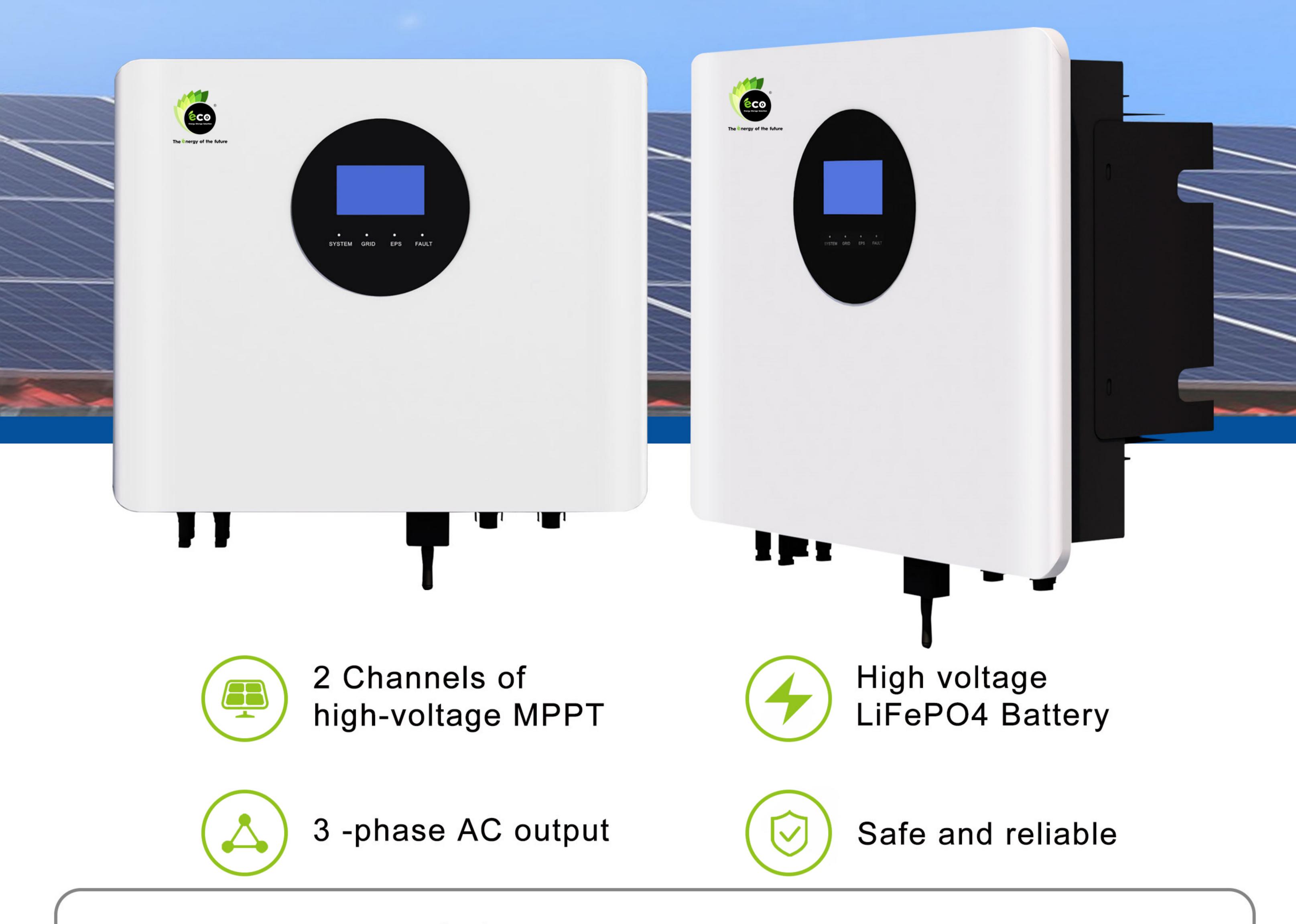


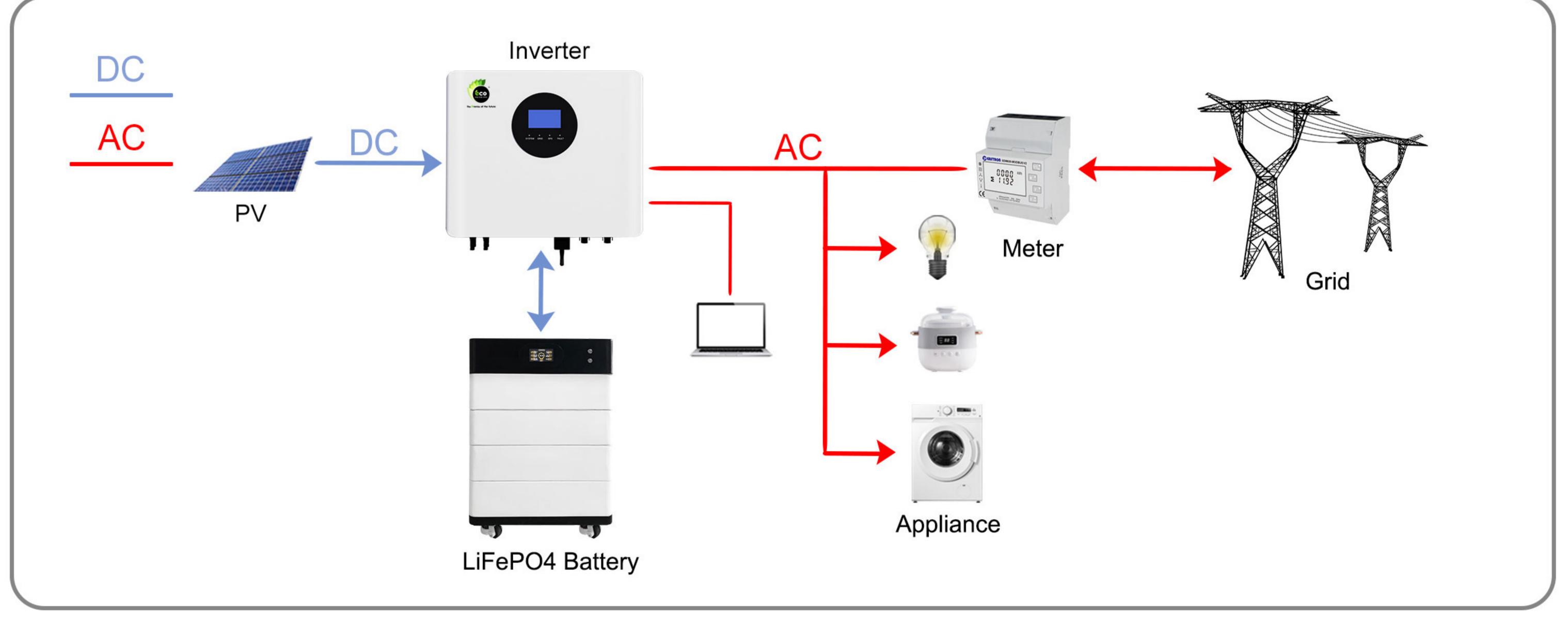






5KW~12KW 3-Phase Hybrid Inverter IP65 Waterproof





	8KW	10KW	12KW	
Module	ECO-8KH3-A1	ECO-10KH3-A1	ECO-12KH3-A1	
Output(AC)				
Nominal power	8000VA	10000VA	12000VA	
Max. power	8800VA	11000VA	13000VA	
Max. output current	15A	17A	20A	
Norminal output voltage		400Vac/ 380Vac		
Norminal frequency	50/ 60Hz			
Grid type	L1/ L2/ L3/ N/ PE			
PV Input				
Max. DC power	12000W	15000W	15000W	
MPPT voltage range		200~850Vdc		
Max. DC voltage		1000Vdc		
Max input current/ per string		13A*2		
MPPT channels		2		
Battery Input				
Battery Type		LiFePO4 Battery		
Battery voltage range		140~700Vdc		
Max. charge/ discharge current		25A/ 25A		
AC Output (Back-up)				
Max. AC power	8000VA	10000VA	12000VA	
Norminal output voltage		400Vac/ 380Vac		
Norminal frequency		50/60Hz		
Efficiency				
Max. conversion efficiency	98.2%			
European efficiency	97.5%			
Max battery to AC efficiency	97.4%			
MPPT efficiency		99.9%		
Safety and Protection				
DC reverse-polarity protection		Yes		
DC breaker	Yes			
DC/ AC SPD	Yes			
General Parameters				
Dimension (W*H*D)/ mm		548*444*184mm		
Weight/ (kg)	27kg			
Operating temperature range	-20~60°C			
Degree of protection	IP65			
Cooling concept	Natural convertion			
Humidity	5% to 95% Relative Humidity (Non-condensing)			
Communication	WiFi			
BMS communication	CAN/RS485			
Meter communication	RS485			

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12KW~20KW High Voltage 3-Phase Hybrid Inverter IP65





IP65 waterproof



48V LiFePO4 Battery

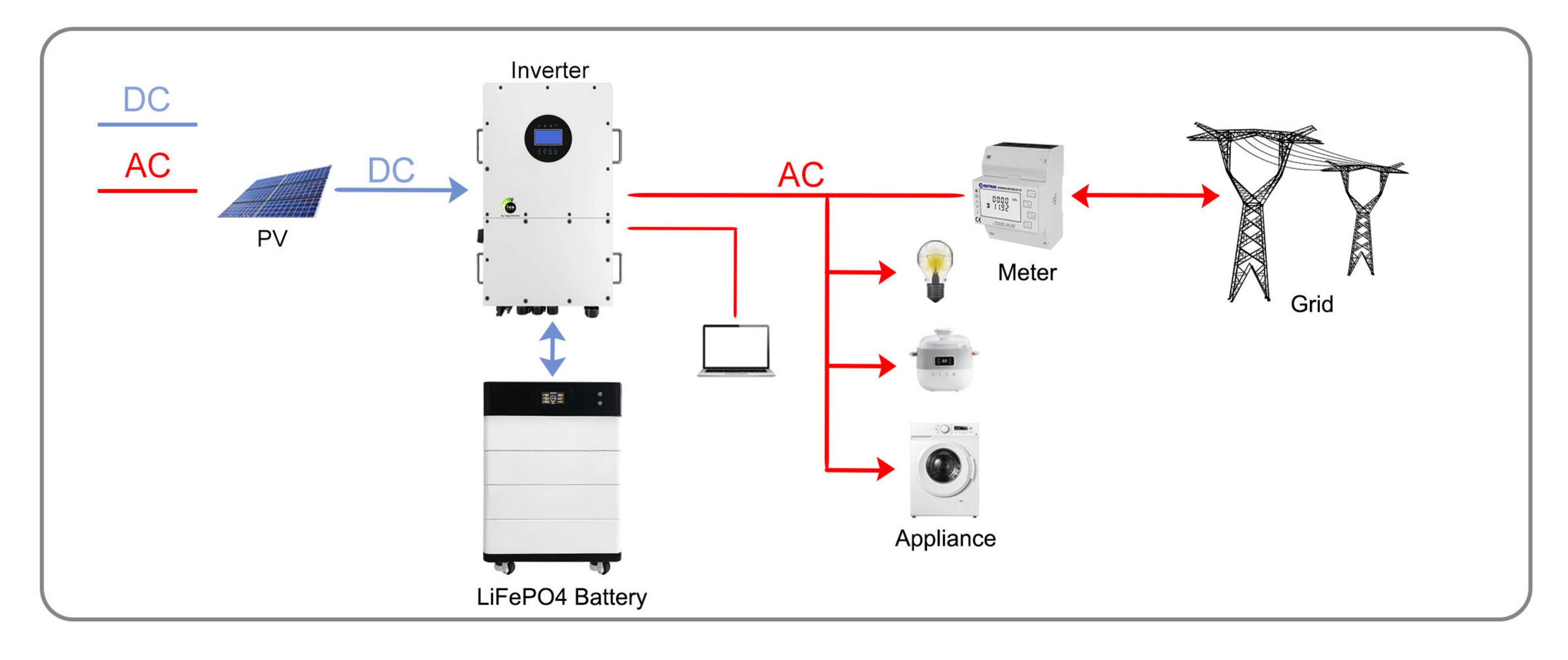


On/Off-grid and UPS

Mobile : + 44 (0) 7729636318



Max Support 6 sets parallel (Hybrid)





	12KW	15KW	20KW
Module	ECO-12KH3-HB1	ECO-15KH3-HB1	ECO-20KH3-HB1
PV			
Max. PV power	15.6KW	19.5KW	26KW
Max. PV voltage		1000Vdc	
MPPT voltage range	325~850Vdc		
Max. PV current		26+26	
MPPT channels		2+2	
AC Output			
Rated power	12KW	15KW	20KW
Max. power	14.4KW	16.5KW	22KW
AC voltage	400Vac/230Vac		
Max AC current	48A	60A	80A
Norminal frequency	50/60Hz		
Battery			
Battery type		Li-ion battery	
Battery voltage range	160~700Vdc		
Max. charge/ discharge current	37A/ 37A		
BMS communication	RS485/CAN		
General parameters			
Max. efficiency	97.5%		
MPPT efficiency	99.0%		
Work temparature	-30~55℃		
Cooling method	Smart Cooling		
Communication	WiFi		
IP grade	IP65		
Size	460*250*680mm 460*250*685mm 460*250*685mm		
Weight		30Kg	

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4 Channels of High-Voltage MPPT IP65 Waterproof





Split-phase 120Vac/ 240Vac



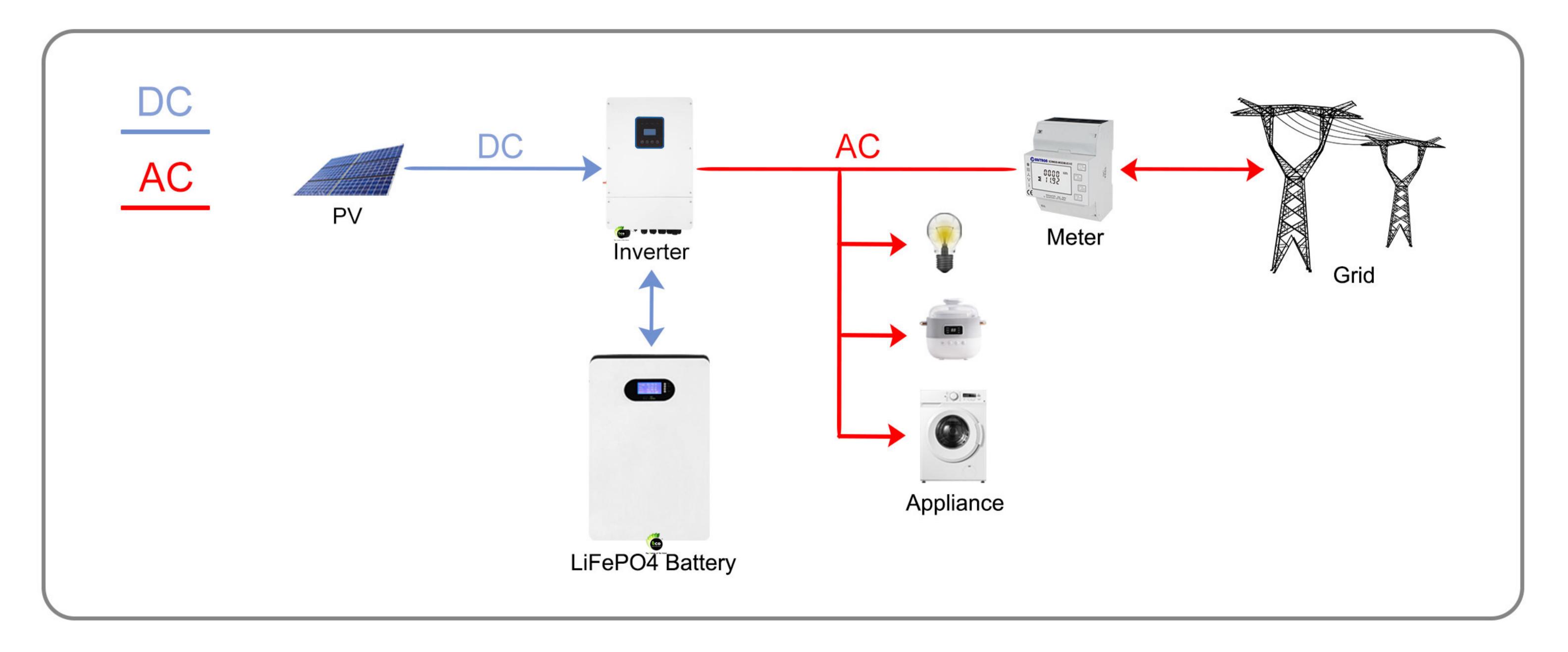
On-grid, off-grid and UPS



Fast charge current 200A



Support RS485 and WiFi





	5KW	8KW	10KW
Module	5KH1NA-ECO	8KH1NA-ECO	10KH1NA-ECO
AC output (grid)			
Typical output frequency	5000W	8000W	10000W
Peak output power	10000VA	15000VA	18000VA
Rated output voltage		230VAC+/-5%	
Output frequency		50/60Hz	
Highest efficiency		94%	
Output wave		Pure sine wave	
Off-grid output			
Max. power	5000W	800	ow
Rated output voltage	120	VAC/240VAC(Split ph	ase)
Output frequency		50/60Hz	
Conversion time		<20mS	
Battery			
Battery typical voltage		48VDC	
Battery voltage range		40~58VDC	
Battery type	Lithiun	n battery/ Lead acid b	attery
BMS communication interface	RS485/CAN		
PV			
Max. PV power	7500W	1200	00W
MPPT voltage range		120~430VDC	
PV max. input voltage	500VDC		
MPPT channels		4	
PV max. charging current	15A	20	A
AC input			
AC input voltage		230VAC	
AC input voltage range	185~264VAC		
AC input frequency	50/60HzAdaptive		
Others			
Waterproof	IP65		
Working temperature range	0~50°C		
Storage temperature range	15-60°C		
Humidity range	20%~95% No frost		
Size	430*220*710mm		
Weight	41kg		

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