

EITAI EST Series

3-Phase Hybrid Energy Storage Inverter

12~20KW

Easy Installation

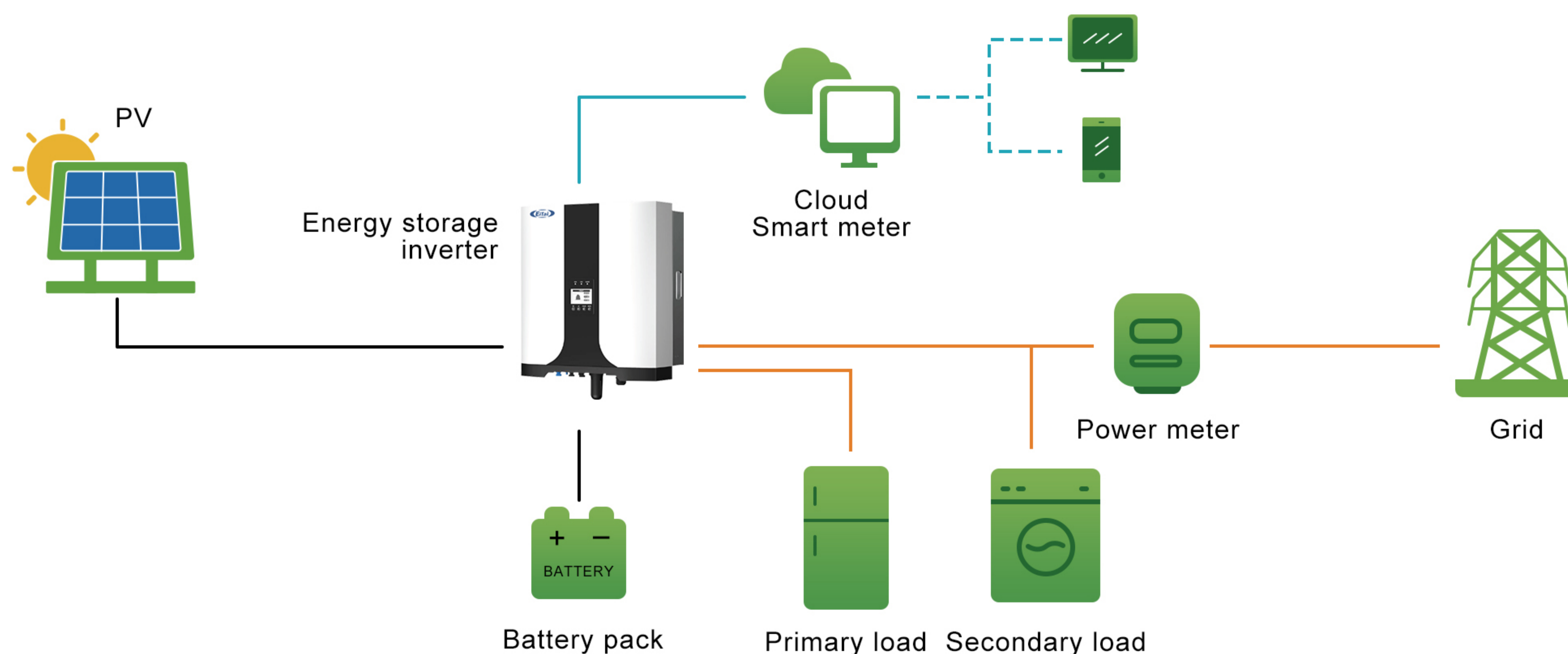
Ultra Silent

IP65 Protection



Key Features:

- Integrate PV and storage system modem, support multiple batteries, integrate with EMS Smart energy management systems
- UPS function, support three-phase imbalance, on/off grid switch within 10ms
- Wide PV voltage input range 180V-950V, wide batteries voltage range 180V-700V
- IP65 protection, aluminum housing, Built-in lightning protection, high-precision leakage protection
- Ultra silent, flexible communications, support remote/local USB upgrade
- Support bifacial panels, max DC current 12.SA, max PV input power up to 1.3 X rated power



EITAI EST Series

Suitable for medium and big-size commercial and household systems
Intelligent switching on/off

MODEL		EST12KH	EST15KH	EST17KH	EST20KH
Efficiency	Max Efficiency	>98.2%			
	Max. PV input power(W)	15600	19500	22100	26000
PV Input	Max. PV input voltage(V)	1000			
	MPPT Operation Voltage Range(V)	180-950			
	Max. Number of PV strings per MPPT	1/1	1/2	2/2	
	Max. PV input current(A)	12.5/12.5	12.5/23	23/23	
	Short-circuit current of PV input(A)	13.5/13.5	13.5/25	25/25	
	Battery	Max Input/Output Voltage(V)	700		
Operating Voltage Range(V)		180-700			
Max Charge/Discharge Current(A)		50/50			
Max Input/Output Power(W)		12000/12000	15000/15000	17000/17000	20000/20000
Battery Type		Li-ion/Lead-acid			
AC Input and Output	Rated Power(W)	12000	15000	17000	20000
	Max.Apparent AC Power(VA)	12000	15000	17000	20000
	Nominal AC Voltage(Vac)	380,3L/N/PE			
	AC Power Frequency(Hz)	50/60			
	Max. AC Output Current(A)	18	22	25	31
	Power Factor Range	~1(Adjustable from 0.8 leading to 0.8 lagging)			
	OutputTHDi(@Nominal Output)	<3%			
Off-Grid AC Output(Back-up AC Output)	Rated Output Power(W)	12000	15000	17000	20000
	Max. Apparent AC Output Power(VA)	12000	15000	17000	20000
	Nominal AC Output Voltage(Vac)	380,3L/N/PE			
	AC Power Frequency(Hz)	50/60			
	Max. AC Output Current(A)	18	22	25	31
General Date	Operating Temperature Range	-25℃...+60℃(>45℃ derating)			
	Operating Altitude(m)	<4000			
	Noise(dB)	<45			
	Topology	Transformerless			
	Cooling Method	Intelligent Fan			
	Ingress Protection Rating	IP65			
	Relative Humidity	0-100%,no condensation			
	DC Connection Type	MC/Amphenol/Phoenix			
	AC Connection Type	Plug-in,Connector			
	Display	LCD			
	Communication With Portal	RS485(WiFi/GPRS Optional)			
	Communication With BMS	CAN			
	Communication With Meter	RS485			
	Mounting Method	Wall-mounting,bracket			
	Dimensions(W*H*D)(mm)	505*630*220			
Weight(Kg)	26	27	27	28	
Certification	Safety	IEC62109-1/-2			
	EMC	EN61000-6-1/-2/-3,IEC61000			
	On-Grid standard	AS4777.2,NRS097-2-1:2017			

Note:Product specifications are subject to change without further notice.