

# 12-20kW Commercial Energy Storage Solutions (Indoor)

Battery capacity 20-60kWh, switch to off-grid mode without interruption, stable operation.



Home appliance style



Modular design



Plug in installation



### ► Modular design

Modular design, plug-in installation, simple appearance design, integration of modern home;

### ► Smart switch

Off-grid operation, supporting emergency power supply, supporting three-phase imbalance, and seamless switching;

### ► Wide voltage input range

Ultra-wide PV voltage range 180V-950V, battery Ultra-wide voltage range 180V-700V;

### ► Safe and reliable

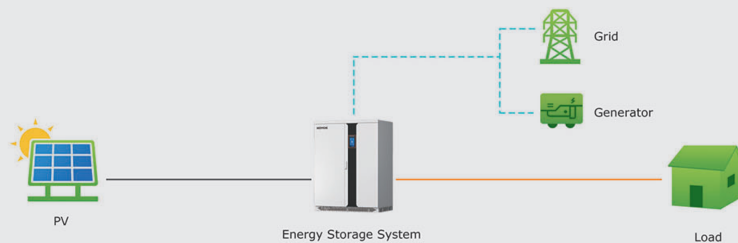
Smart air cooling, low temperature rise, long life time, multiple protection functions;

### ► Smart and simple

Supporting GPRS / WIFI / RS485 / USB, LED touching screen, supporting remote monitoring;

### ► High power efficiency

Less output power reduction under high temperature, with efficiency improved, max PV input power up to 1.3 X rated power.



Model		YT12kw-60kwh-I	YT15kw-60kwh-I	YT17kw-60kwh-I	YT20kw-60kwh-I
Efficiency	MPPT.Efficiency	99.90%	99.90%	99.90%	99.90%
	Max.Efficiency	>97.80%	>97.80%	>97.80%	>97.80%
	Battery.Efficiency	>98.10%	>98.10%	>98.10%	>98.10%
Battery Pack	Model	KY-51.2V100AH	KY-51.2V100AH	KY-51.2V100AH	KY-51.2V100AH
	Serial Number	12	12	12	12
	Cell Type	Li-ion(LFP)	Li-ion(LFP)	Li-ion(LFP)	Li-ion(LFP)
	Battery Capacity(Ah)	100	100	100	100
	Storage Capacity(KWh)	61.4KWh	61.4KWh	61.4KWh	61.4KWh
	Available Capacity(KWh)	55.3KWh	55.3KWh	55.3KWh	55.3KWh
	Voltage Range(V)	537~690	537~690	537~690	537~690
PV Input	Cycle Life	7000	7000	7000	7000
	Max. PV input power(W)	15600	19500	22100	26000
	Max. PV input voltage(V)	1000	1000	1000	1000
	MPPT Operation Voltage Range(V)	180-950	180-950	180-950	180-950
	Number of MPPT/PV Strings	2/1	2/2	2/2	2/2
	Max. PV input current(A)	12.5/12.5	12.5/23	12.5/23	23/23
	Short-circuit current of PV input(A)	15	15/30	15/30	30/30
Battery Port	Operating Voltage Range(V)	180-700	180-700	180-700	180-700
	Max Charge/Discharge Current(A)	50/50	50/50	50/50	50/50
	Communication With BMS	CAN	CAN	CAN	CAN
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	380,3L/N/PE	380,3L/N/PE	380,3L/N/PE
	AC Power Frequency(Hz)	50/60	50/60	50/60	50/60
	Max. AC Output Current(A)	18	22	25	31
	Power Factor Range	~1 (Adjustable from 0.8 leading to 0.8 lagging)			
	OutputTHD(@Nominal Output)	<3%	<3%	<3%	<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	380,3L/N/PE	380,3L/N/PE	380,3L/N/PE
	AC Power Frequency(Hz)	50/60	50/60	50/60	50/60
	Max. AC Output Current(A)	18	22	25	31
	Operating Temperature Range	-25°C ... +60°C (>45°C derating)			
	Operating Altitude(m)	<3000			
Noise(dB)	<40				
General Data	Topology	Transformerless			
	Cooling Method	Intelligent Fan			
	Ingress Protection Rating	IP21			
	Relative Humidity	5-85%, no condensation			
	Display	LED Touching Screen			
	Communication With Portal	RS485 (WIFI/GPRS Optinal)			
	Communication With Meter	RS485			
Certification	Dimensions (W*D*H)(mm)	1160*660*1500			
	Safety	IEC62109-1/-2			
	EMC	EN61000-6-1/-2/-3,IEC61000			
	On-Grid standard	AS4777.2,NRS097-2-1:2017			
Transportation	UN38.3				