

12-20kW Commercial Energy Storage Solutions (Stacked)

Battery capacity 20-30kWh, switch to off-grid mode without interruption, stable operation.

- Home appliance style
- Modular design
- Stacked installation



► Modular design

Modular design, Stacked 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-550V;

► Safe and reliable

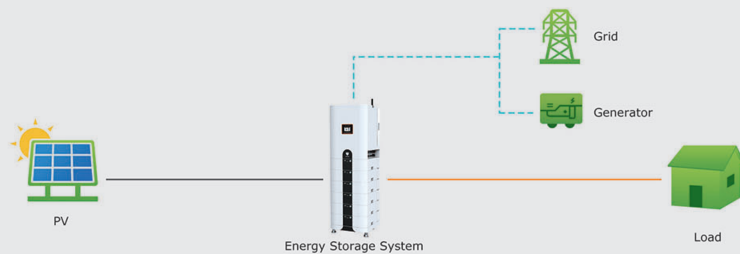
Smart air cooling, low temperature rise, long life time, multiple protection functions;

► Smart and simple

Supporting GPRS / WIFI / RS485 / USB, LCD design, 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-(20~30)kwh-T	YT15kw-(20~30)kwh-T	YT17kw-(20~40)kwh-T	YT20kw-(20~40)kwh-T	
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-51V105AH-T	KY-51V105AH-T	KY-51V105AH-T	KY-51V105AH-T
	Serial Number*	4~6	4~6	4~8	4~8
	Cell Type	Li-ion(LFP)	Li-ion(LFP)	Li-ion(LFP)	Li-ion(LFP)
	Battery Capacity(Ah)	105	105	105	105
	Storage Capacity(KWh)	20~30	20~30	20~40	20~40
	Available Capacity(KWh)	18~27	18~27	18~27	18~36
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
Battery Port	Short-circuit current of PV input(A)	15/15	15/30	15/30	30/30
	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
	Rated Power(W)	12000	15000	17000	20000
	Max. Apparent AC Power(VA)	12000	15000	17000	20000
AC Input and Output	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)		
	Output THDI(@Nominal Output)	<3%	<3%	<3%	<3%
	Rated Output Power(W)	12000	15000	17000	20000
Off-Grid AC Output (Back-up AC Output)	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			
General Data	Noise(dB)	<40			
	Topology	Transformerless			
	Cooling Method	natural			
	Ingress Protection Rating	IP65			
	Relative Humidity	5-85%, no condensation			
	Display	LCD			
	Communication With Portal	RS485 (WIFI/GPRS Optional)			
	Communication With Meter	RS485			
	Dimensions (W/H/D)	510*446.5*1690mm			
	Safety	IEC62109-1/-2			
Certification	EMC	EN61000-6-1/-2/-3, IEC61000			
	On-Grid standard	AS4777.2, NRS097-2-1:2017			
	Transportation	UN38.3			

*Battery pack stacking quantity selection range

*The model name is determined by the number of battery packs