

Applicable to household distributed energy storage scenarios

6-10kW distributed photovoltaic storage hybrid system (stacked)

Product Models

- ◆ KYT6kW-20kWH-S
- ◆ KYT8kW-25kWH-S
- ◆ KYT10kW-30kWH-S



Three-phase Five-wire Four-bridge



Support **100%**
three-phase imbalance

Simple atmosphere



Modularized design, stacked
installation
Simple appearance design,
integration with modern home

Efficient power generation



High temperature load reduction,
improved power generation
efficiency DC over-distribution
capacity up to **1.7** times

Wide Voltage Range



Ultra-wide PV voltage
range **180V-900V**
Battery Ultra-widevoltage
range **180V-700V**

Model	KYT6kW-20kWH-S	KYT8kW-25kWH-S	KYT10kW-30kWH-S
PV Input Data			
Max. Input Power[W]	10200	13600	17000
Max. Input Voltage[V]	1000		
Operating Voltage Range/Nominal Input Voltage[V]	180~900/610		
Max. Input Current[A]	18/18		
Short-circuit Current[A]	20/20		
Number of MPPT	2		
Number of Independent MPP Inputs	1/1		
AC Output Data(GRID)			
Nominal Output Power[W]	6000	8000	10000
Max. Apparent Power [VA]	6600	8800	22000
Max Input Power[W]	12000	16000	30000
Nominal Output Voltage[Vac]	380/400V,3L/N/PE		
Nominal Output Frequency[Hz]	50/60		
Max. Output Current[A]	9.5	12.7	16
Max. Three-phase Unbalanced Output Current[A]	13	17.5	22
Grid Bypass Current[A]	35	35	35
Power Factor	~1 (0.8 lead to 0.8 lag can be set)		
Total Harmonic Distortion[%]	<3		
AC Output Data(EPS)			
Nominal Output Power[W]	6000	8000	20000
Max. Apparent Power [VA]	6600	8800	22000
Nominal Output Voltage[Vac]	380/400V,3L/N/PE		
Nominal Output Frequency[Hz]	50/60		
Max. Three-phase Unbalanced Output Current[A]	13	17.5	22
Max. Output Single-phase Apparent Power[A]	3000	4000	5000
Peak Output Apparent Power[VA](60s)	7200	9600	12000
Peak Output Apparent Power[VA](10s)	9000	12000	15000
On/off Grid switching time [ms]	<10		
AC Output Data(GEN)			
Nominal Voltage[Vac]	380/400V,3L/N/PE		
Nominal Frequency[Hz]	50/60		
Nominal Input Apparent Power[VA]	6000	8000	15000
Battery Data			
Operating Voltage Range[V]	204.8	256	307.2
Battery model	KY-51V105AH-T		
Nominal Charge/Discharge Current[A]	50/50		
Max. Charge/Discharge Current[A]	50/50		
Number of Batteries	4	5	6
Single Battery Capacity[kWh]	5.12		
Nominal Capacity[kWh]	20.48	25.6	30.72
Available Capacity[kWh]	18.43	23.04	27.65
Efficiency			
Efficiency of standard ambient temperature system[%]	88		
General Data			
Operating Temperature Range(°C)	-25~60 (>45derating)		
Operating Altitude(m)	<4000		
Degree of Protection (according to IEC 60529)	IP65		
Relative Humidity[%]	0~95, No condensation		
Dimension(W*D*H)[mm]	510*447*1323	510*447*1463	510*447*1603
Certification			
Safety Standards	IEC62109-1/-2		
EMC Standards	EN61000-6-1/-2/-3,IEC61000		
On-grid Standard	AS4777.2:2020,NRS097-2-1:2017,EN 50549-1 for Czech,VDE-AR-N 4105:2018, EN50549-1:2019+AC:2,G98 G99,OVE-R25,EN50549-1:2019 for Poland A&B		