KOYOE

Applicable to C&I Energy Storage Scenarios

30-50kW-121kWh-I Distributed Photovoltaic Energy Storage Hybrid System

Product Models

- KYT30kW-121kWh-A
- KYT40kW-121kWh-A
- KYT50kW-121kWh-A

Plug-in Installation

Easy installation
labor saving

Four-Level Fire Protection

Accurate monitoring to prevent problems
Multiple barriers, solid protection

Support Diesel Engine

Optimize resource allocation Enhance power supply reliability

Multiple Systems in Parallel

Up to 40 units can be connected in parallel

*Requires parallel collectors (under grid connected condition)

*Specifications are subject to the actual nameplate of the product

Model	KYT30kW-121kWh-A	KYT40kW-121kWh-A	KYT50kW-121kWh-A
PV Input Data			
Max. Input Power[W]	51000	68000	85000
Max. Input Voltage[V]	1000		
Operating Voltage Range[V]	180~900		
Max. Input Current[A]	36/36/36		36/36/36/36
Max. Short Circuit Current[A]	42/42/42		42/42/42/42
Number of MPPT Trackers	3		4
Number of Strings per MPPT	2/2/2		2/2/2/2
MPPT tracking efficiency [%]	99.99		
AC Output Data(On-grid)			
Nominal Output Power[W]	30000	40000	50000
Max. Apparent Output Power [VA]	33000	44000	55000
Max Input Power[W]	60000		
Nominal Output Voltage[Vac]	380/400V,3L/N/PE		
Nominal Output Frequency[Hz]	50/60		
Max. Output Current[A]	47	63	79
Max. Three-phase Unbalanced Output Current[A]	47	63	79
Power grid bypass current (A)	87		
Power Factor	~1(0.8 lead to 0.8 lag can be set)		
Total Harmonic Distortion[%]	<3		
AC Data(Off-grid)			
Nominal Output Power[W]	30000	40000	50000
Max. Apparent Output Power [VA]	33000	44000	55000
Nominal Output Voltage[Vac]	380/400V,3L/N/PE		
Nominal Output Frequency[Hz]	50/60		
Max. Three-phase Unbalanced Output Current[A]	47	63	79
Max. Output Single-phase Apparent Power[VA]	11000	14600	18000
Peak Output Apparent Power[VA](60s)	36000	48000	60000
Peak Output Apparent Power[VA](10s)	40000	60000	75000
On/Off grid switching time [ms]	<10		
AC Data(Diesel Gen.)			
Nominal Voltage[Vac]	380/400V,3L/N/PE		
Nominal Frequency[Hz]	50/60		
Nominal Input Apparent Power[VA]	60000		
Efficiency			
Efficiency of System [%]	88（0.5C charge & discharge @25±2℃）		
Battery Data			
Battery type	LFP		
Nominal Voltage[V]	384		
Working voltage range[V]	336~438		
Battery model	KY-64V314AH		
Max. Charge/Discharge Power[W]	30000	40000	50000
Cycle	cell ≥8000 cycles， 25±2℃，0.5C，90%DOD，70%EOL		
Nominal Charge/Discharge Current[A]	78/78	104/104	130/130
Number of Batteries	6		
Single Battery Capacity[kWh]	20.09		
Nominal Capacity[kWh]	121		
90%DODAvailable Capacity[kWh]	108.9		
Temperature Control System			
Temperature Control System	Intelligent air conditioning		
Fire Fighting System			
Active	Detector+Condensed aerosol fire extinguishing device+Water Fire Protection		
Passive	Condensed aerosol fire extinguishing device		
Explosion-proof	Passive presure explosion-proof valve		
General Data			
Operating Temperature Range[℃]	-20~50（>45 derating）		
Altitude[m]	<2000		
Ingress Protection Rating	IP54		
Relative Humidity[%]	0~95，No condensation		
Dimension(W*H*D)[mm]	942*1346*2203		
Weight [kg]	1400		
Certification			
Safety Standards	EN 62109-1/-2		
EMC Standards	IEC/EN 61000-6-1/-2/-3/-4		
On-grid Standard	CEI 0-21,NRS097-2-1:2017,VDE-AR-N 4105:2018，CQC 3310-2014		

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