

12-20kW Energy Storage System (Stack)

Model		KYT12kw-30kwh-S	KYT15kw-30kwh-S	KYT17kw-30kwh-S	KYT20kw-30kwh-S
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-48V105AH	KY-48V105AH	KY-48V105AH	KY-48V105AH
	Serial Number	6	6	6	6
	Cell Type	Li-ion(LFP)	Li-ion(LFP)	Li-ion(LFP)	Li-ion(LFP)
	Battery Capacity(Ah)	105	105	105	105
	Storage Capacity(KWh)	30	30	30	30
	Available Capacity(KWh)	27	27	27	27
	Voltage(V)	288	288	288	288
	Cycle Life	7000	7000	7000	7000
PV Input	Max. PV input power(W)	15600	19500	22100	26000
	Max. PV input voltage(V)	1000	1000	1000	1000
	MPP 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	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)	~1 (Adjustable from 0.8 leading to 0.8 lagging)	~1 (Adjustable from 0.8 leading to 0.8 lagging)	~1 (Adjustable from 0.8 leading to 0.8 lagging)
	OutputTHDi(@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℃ ...+60℃(>45℃	-25℃ ...+60℃(>45℃	-25℃ ...+60℃(>45℃	-25℃ ...+60℃(>45℃
General Data	Operating Altitude(m)	<3000	<3000	<3000	<3000
	Noise(dB)	<40	<40	<40	<40
	Topology	Transformerless	Transformerless	Transformerless	Transformerless
	Cooling Method	natural	natural	natural	natural
	Ingress Protection Rating	IP65	IP65	IP65	IP65
	Relative Humidity	5-85%, no condensation	5-85%, no condensation	5-85%, no condensation	5-85%, no condensation
	Display	LCD	LCD	LCD	LCD
	Communication With Portal	RS485 (WiFi/GPRS Optional)	RS485 (WiFi/GPRS Optional)	RS485 (WiFi/GPRS Optional)	RS485 (WiFi/GPRS Optional)
	Communication With Meter	RS485	RS485	RS485	RS485
	Weight (kg)	325	325	325	325
	Dimensions (W*D*H)(mm)	510*400*1615	510*400*1615	510*400*1615	510*400*1615
Certification	Safety	IEC62109-1/-2	IEC62109-1/-2	IEC62109-1/-2	IEC62109-1/-2
	EMC	EN61000-6-1/-2/-3,IEC61000	EN61000-6-1/-2/-3,IEC61000	EN61000-6-1/-2/-3,IEC61000	EN61000-6-1/-2/-3,IEC61000
	On-Grid standard	AS4777.2,NRS097-2-1:2017	AS4777.2,NRS097-2-1:2017	AS4777.2,NRS097-2-1:2017	AS4777.2,NRS097-2-1:2017
	Transportation	UN38.3	UN38.3	UN38.3	UN38.3