



KOYOE

DATASHEET

Three-Phase All-in-one Solution (Stack Model)

KYT06kw-25kwh-S/08kw-25kwh-S/10kw-25kwh-S/12kw-30kwh-S/
15kw-30kwh-S/17kw-30kwh-S/20kw-30kwh-S



H3SS SERIES



Advanced Performance

High-voltage inverter, 97.8% max efficiency. Provides higher charge & discharge rate when combines with Koyoe ESS *Requires additional Battery and BMS.



Stack Design

Fluent installation experience by simply stack the inverter module and the battery module together.



Efficient Fireproofing

Internal Novec 1230 Fire Suppression Stickers. Immediately isolates oxygen and reduces temperature.



Communication

Monitoring Platform via app and website. Supports online system upgrade.



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Model	KYT	06kw-25kwh-S	08kw-25kwh-S	10kw-25kwh-S	12kw-30kwh-S	15kw-30kwh-S	17kw-30kwh-S	20kw-30kwh-S
EFFICIENCY								
MPPT.Efficiency		99.90%	99.90%	99.90%	99.90%	99.90%	99.90%	99.90%
Max.Efficiency		>97.80%	>97.80%	>97.80%	>97.80%	>97.80%	>97.80%	>97.80%
Battery.Efficiency		>98.10%	>98.10%	>98.10%	>98.10%	>98.10%	>98.10%	>98.10%
BATTERY PACK								
Model		KY-48V105AH	KY-48V105AH	KY-48V105AH	KY-48V105AH	KY-48V105AH	KY-48V105AH	KY-48V105AH
Serial Number		5	5	5	6	6	6	6
Cell Type		Li-ion(LFP)	Li-ion(LFP)	Li-ion(LFP)	Li-ion(LFP)	Li-ion(LFP)	Li-ion(LFP)	Li-ion(LFP)
Battery Capacity(Ah)		105	105	105	105	105	105	105
Storage Capacity(kWh)		25	25	25	30	30	30	30
Available Capacity(kWh)		22.5	22.5	22.5	27	27	27	27
Voltage(V)		240	240	240	288	288	288	288
Cycle Life		7000	7000	7000	7000	7000	7000	7000
PV INPUT								
Max. PV input power(W)		7800	10400	13000	15600	19500	22100	26000
Max. PV input voltage(V)		1000	1000	1000	1000	1000	1000	1000
MPP Operation Voltage Range(V)		180-950	180-950	180-950	180-950	180-950	180-950	180-950
No. of MPPTs		2	2	2	2	2	4	4
Max. number of PV strings per MPPT		1/1	1/1	1/1	1/1	2/1	2/2	2/2
Max. PV input current(A)		12.5/12.5	12.5/12.5	12.5/12.5	12.5/12.5	12.5/23	12.5/23	23/23
Short-circuit current of PV input(A)		15/15	15/15	15/15	15/15	15/30	15/30	30/30
BATTERY PORT								
Operating Voltage Range(V)		180-550	180-550	180-550	180-700	180-700	180-700	180-700
Max Charge/Discharge Current(A)		25/30	25/30	25/30	50/50	50/50	50/50	50/50
Communication With BMS		CAN	CAN	CAN	CAN	CAN	CAN	CAN
AC INPUT AND OUTPUT								
Rated Power(W)		6000	8000	10000	12000	15000	17000	20000
Max. Apparent AC Power(VA)		6000	8000	10000	12000	15000	17000	20000
Nominal AC Voltage(Vac)		380,3L/N/PE	380,3L/N/PE	380,3L/N/PE	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	50/60	50/60	50/60
Max. AC Output Current(A)		10	12	15	18	22	25	31
Power Factor Range		~1 (Adjustable from 0.8 leading to 0.8 lagging)						
OutputTHDI(@Nominal Output)		<3%	<3%	<3%	<3%	<3%	<3%	<3%
Rated Output Current		10A	12A	15A	18A	22A	25A	31A
OFF-GRID AC OUTPUT(BACK-UP AC OUTPUT)								
Rated Output Power(W)		6000	8000	10000	12000	15000	17000	20000
Max. Apparent AC Output Power(VA)		6000	8000	10000	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	380,3L/N/PE	380,3L/N/PE	380,3L/N/PE
AC Power Frequency(Hz)		50/60	50/60	50/60	50/60	50/60	50/60	50/60
Max. AC Output Current(A)		10	12	15	18	22	25	31
GENARAL DATA								
Operating Temperature Range		-25℃ ...+60℃(>45℃ derating)						
Operating Altitude(m)		<3000						
Noise(dB)		<40						
Topology		Transformerless						
Cooling Method		Natural						
Ingress Protection Rating		IP54						
Relative Humidity		5-85%, no condensation						
Display		LCD						
Communication With Potral		RS485 (WiFi/GPRS Optinal)						
Communication With Meter		RS485						
Weight		325	325	325	340	340	340	340t
Dimensions (W*H*D)(mm)		510*1600*450	510*1600*450	510*1600*450	510*1615*400	510*1615*400	510*1615*400	510*1615*400
CERTIFICATION								
Safety		IEC62109-1/-2						
EMC		EN61000-6-1/-2/-3,IEC61000						
On-Grid standard		AS4777.2,NRS097-2-1:2017						
Transportation		UN38.3						
COUNTRY								
Country Of Manufacture		China						