



KOYOE

DATASHEET
Single-Phase All-in-one Solution (Stack Model)
KYS5kw-(10-20)kwh-S



HISS 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	KYS5kw-(10-20)kwh-S
EFFICIENCY	
MPPT.Efficiency	99.90%
Max.Efficiency	>97.80%
Battery.Efficiency	>98.10%
BATTERY PACK	
Model	KY-51V105AH-S
Serial Number	2-4
Cell Type	Li-ion(LFP)
Battery Capacity(Ah)	105
Storage Capacity(kWh)	10-20
Available Capacity(kWh)	9-18
Cycle Life	7000
PV INPUT	
Max. PV input power(W)	7000
Input starting up voltage (V)	100
Max. PV input voltage(V)	550
Min operating voltage (V)	120
MPP Operation Voltage Range(V)	120-500
Number of MPP trackers	2
Number of input strings	1/1
Max. PV input current(A)	15/15
Short-circuit current of PV input(A)	18/15
BATTERY PORT	
Operating Voltage Range(V)	85-450
Nominal Voltage(V)	96
Max Charge/Discharge Current(A)	25/25
Communication With BMS	CAN
AC INPUT AND OUTPUT	
Rated Power(W)	5000
Max. Apparent AC Power(VA)	5000
Nominal AC Voltage(Vac)	230,1 ϕ (L/N/PE)
AC Power Frequency(Hz)	50/60
Max. AC Output Current(A)	21.7
Power Factor Range	-1 (Adjustable from 0.8 leading to 0.8 lagging)
OutputTHDi(@Nominal Output)	<3%
OFF-GRID AC OUTPUT(BACK-UP AC OUTPUT)	
Rated Output Power(W)	5000
Max. Apparent AC Output Power(VA)	5000
Nominal AC Output Voltage(Vac)	230,1 ϕ (L/N/PE)(N not connect to PE inside)
AC Power Frequency(Hz)	50/60
Max. AC Output Current(A)	21.7
GENERAL DATA	
Operating Temperature Range	-25°C ...+60°C(>45°C derating)
Operating Altitude(m)	<4000
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(kg)	130
Dimensions (W*H*D)(mm)	390*1293/1593/1893*380
CERTIFICATION	
Safety	IEC62109-1/-2
EMC	EN61000-6-1/-2/-3,IEC61000
On-Grid standard	AS4777.2,NRS097-2-1:2017
COUNTRY	
Country Of Manufacture	China