



KOYOEE

DATASHEET

Single-Phase All-in-one Solution (Indoor)

KYS5kw-10kwh-I/5kw-20kwh-I



Advanced Performance

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

H1S SERIES



Modules Design

Every component (including hybrid inverter, battery and BMS) in our All-one-solution is designed as a separate module. More efficient for customization and maintenance.



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-10kwh-I | KYS5kw-20kwh-I |
|---|---|---|
| EFFICIENCY | | |
| MPPT.Efficiency | 99.90% | 99.90% |
| Max.Efficiency | >97.80% | >97.80% |
| Battery.Efficiency | >98.10% | >98.10 |
| BATTERY PACK | | |
| Model | KY-48V105AH | KY-48V105AH |
| Serial Number | 2 | 4 |
| Cell Type | Li-ion(LFP) | Li-ion(LFP) |
| Battery Capacity(Ah) | 105 | 105 |
| Storage Capacity(KWh) | 10 | 20 |
| Available Capacity(KWh) | 9 | 18 |
| Cycle Life | 7000 | 7000 |
| PV INPUT | | |
| Max. PV input power(W) | 7000 | 7000 |
| Input starting up voltage (V) | 100 | 100 |
| Max. PV input voltage(V) | 550 | 550 |
| Min operating voltage (V) | 120 | 120 |
| MPP Operation Voltage Range(V) | 120-500 | 120-500 |
| Number of MPPT/PV Strings | 2/1 | 2/1 |
| Max. PV input current(A) | 12/12 | 12/12 |
| Short-circuit current of PV input(A) | 15/15 | 15/15 |
| BATTERY PORT | | |
| Operating Voltage Range(V) | 85-450 | 85-450 |
| Nominal Voltage(V) | 96 | 192 |
| Max Charge/Discharge Current(A) | 25/25 | 25/25 |
| Communication With BMS | CAN | CAN |
| AC INPUT AND OUTPUT | | |
| Rated Power(W) | 5000 | 5000 |
| Max. Apparent AC Power(VA) | 5000 | 5000 |
| Nominal AC Voltage(Vac) | 230,1 ϕ (L/N/PE) | 230,1 ϕ (L/N/PE) |
| AC Power Frequency(Hz) | 50/60 | 50/60 |
| Max. AC Output Current(A) | 21.7 | 21.7 |
| Power Factor Range | -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% |
| OFF-GRID AC OUTPUT(BACK-UP AC OUTPUT) | | |
| Rated Output Power(W) | 5000 | 5000 |
| Max. Apparent AC Output Power(VA) | 5000 | 5000 |
| Nominal AC Output Voltage(Vac) | 230,1 ϕ (L/N/PE)(N not connect to PE inside) | 230,1 ϕ (L/N/PE)(N not connect to PE inside) |
| AC Power Frequency(Hz) | 50/60 | 50/60 |
| Max. AC Output Current(A) | 21.7 | 21.7 |
| GENERAL DATA | | |
| Operating Temperature Range | -25°C ...+60°C(>45°C derating) | -25°C ...+60°C(>45°C derating) |
| Operating Altitude(m) | <4000 | <4000 |
| Noise(dB) | <40 | <40 |
| Topology | Transformerless | Transformerless |
| Cooling Method | Intelligent Fan | Intelligent Fan |
| Ingress Protection Rating | IP21 | IP21 |
| Relative Humidity | 5-85%, no condensation | 5-85%, no condensation |
| Display | LCD | LCD |
| Communication With Potral | RS485 (WiFi/GPRS Optional) | RS485 (WiFi/GPRS Optional) |
| Communication With Meter | RS485 | RS485 |
| Dimensions (W*H*D)(mm) | 686*500*1280 | 686*500*1955 |
| CERTIFICATION | | |
| Safety | IEC62109-1/-2 | |
| EMC | EN61000-6-1/-2/-3,IEC61000 | |
| On-Grid standard | AS4777.2,NRS097-2-1:2017 | |
| COUNTRY | | |
| Manufacture Of Country | China | |