

H2 5-10K Three Phase Hybrid Inverter

SAJ's hybrid inverter supported easy setting of smart working modes, UPS 10ms switch time and fast charging/discharging speed of battery. H2 covers 5-10kW, 2MPPTs and three phase grid.



- ❑ Easy setting of smart working modes
- ❑ AFCI (optional)
- ❑ DC 15A/ string matched with ultra high PV modules
- ❑ 150% DC oversizing
- ❑ Battery fast charging/ discharging supported
- ❑ Supported 100% three phase voltage imbalance
- ❑ With UPS function switch time $\leq 10\text{ms}$
- ❑ 110% AC overloading

H2-5K-T2 | H2-6K-T2
H2-8K-T2 | H2-10K-T2 | H2-10K-T2-B

| MODEL | H2-5K-T2 | H2-6K-T2 | H2-8K-T2 | H2-10K-T2 | H2-10K-T2-B |
|---|------------|---|--|------------|-------------|
| DC Input | | | | | |
| Max. PV Array Power [Wp]@STC | 7500 | 9000 | 12000 | 15000 | 15000 |
| Max. DC Voltage [V] | | | 1000 | | |
| MPPT Voltage Range [V] | | | 180~900 | | |
| Rated DC Voltage [V] | | | 600 | | |
| Start Voltage [V] | | | 180 | | |
| Max. DC Input Current [A] | | | 15 / 15 | | |
| Max. DC Short Circuit Current [A] | | | 18 / 18 | | |
| No. of MPPT | | | 2 | | |
| Battery Parameters | | | | | |
| Battery Type | | | LiFePO4 | | |
| Battery Voltage Range [V] | | | 180~600 | | |
| Max. Charging/Discharging Current [A] | | | 30/30 | | |
| AC Output [On-grid] | | | | | |
| Rated AC Power [W] | 5000 | 6000 | 8000 | 10000 | 10000 |
| Max. Apparent Power [VA] | 5500 | 6600 | 8800 | 11000 | 10000 |
| Rated Output Current [A]@230Vac | 7.2 | 8.7 | 11.6 | 14.5 | 14.5 |
| Max. Output Current [A] | 8.3 | 10.0 | 13.3 | 16.7 | 15.2 |
| Current Inrush [A] | | | 52.0 | | |
| Max. AC Fault Current [A] | | | 45.0 | | |
| Max. AC Over Current Protection [A] | 20.8 | 25.0 | 33.3 | 41.8 | 41.8 |
| Rated AC Voltage/Range [V] | | 3L+N+PE, 220/380, 230/400, 240/415; 180 ~ 280/312 ~ 485 | | | |
| Rated Output Frequency/Range [Hz] | | 50,60/45 ~ 55,55 ~ 65 | | | |
| Power Factor [cos φ] | | 0.8 leading ~ 0.8 lagging | | | |
| Total Harmonic Distortion [THDi] | | <3% | | | |
| AC Input [On-grid] | | | | | |
| Rated AC Voltage/Range [V] | | 3L+N+PE, 220/380, 230/400, 240/415; 180 ~ 280/312 ~ 485 | | | |
| Rated Input Frequency [Hz] | | 50,60 | | | |
| Max. Input Current [A]@230Vac | 8.3 | 10.0 | 13.3 | 16.7 | 15.2 |
| AC Output [Back-up] | | | | | |
| Max. Output Power [VA] | 5000 | 6000 | 8000 | 10000 | 10000 |
| Max. Output Current [A] | 8.0 | 9.6 | 12.8 | 15.9 | 14.5 |
| Peak Output Apparent Power [VA] | 10000, 60s | 12000, 60s | 16000, 60s | 16500, 60s | 16500,60s |
| Rated AC Voltage/Range [V] | | 3L+N+PE, 220/380, 230/400, 240/415; 180 ~ 280/312 ~ 485 | | | |
| Rated Output Frequency/Range [Hz] | | 50,60/45 ~ 55,55 ~ 65 | | | |
| Output THDv (@ Linear Load) | | <3% | | | |
| Efficiency | | | | | |
| Max. Efficiency | | | 98.0% | | |
| Euro Efficiency | | | 97.6% | | |
| Protection | | | | | |
| Battery Input Reverse Polarity Protection | | | Integrated | | |
| Over load Protection | | | Integrated | | |
| AC Short Circuit Current Protection | | | Integrated | | |
| DC Surge Protection | | | Integrated | | |
| AC Surge Protection | | | Integrated | | |
| Anti-islanding Protection | | | Integrated | | |
| AFCI Protection | | | Optional | | |
| RSD Protection | | | Optional | | |
| Interface | | | | | |
| PV Connection | | | MC4/D4 | | |
| AC Connection | | | Plug-in connector | | |
| Battery Connection | | | Quick connector | | |
| Display | | | LED+APP | | |
| Communication | | | Wifi/ethernet/4G (optional) | | |
| General Parameters | | | | | |
| Topology | | | Non-isolated | | |
| Operating Temperature Range | | | -25°C to +60°C (45°C to 60°C with derating) | | |
| Cooling Method | | | Natural convection | | |
| Ambient Humidity | | | 0-100% Non-condensing | | |
| Altitude | | | 4000m (>3000m power derating) | | |
| Noise [dBA] | | | <30 | | |
| Ingress Protection | | | IP65 | | |
| Dimensions [H*W*D] [mm] | | | 433*549*207 | | |
| Weight [kg] | | | 25 | | |
| Warranty [Year] | | | 5/10/15/20 | | |
| Standard | | | EN 62109-1/2, EN 61000-6-2/4, EN 50438, EN 50549, C10/11, IEC 62116, IEC 61727, RD 1699, RD 413, UNE 206006, UNE 206007, NTS, CEI 0-16, CEI 0-21, AS 4777.2, NBR 16149, NBR 16150, VDE-AR-N 4105, VDE 0126-1-1 | | |