

**SAJ**

# H2 SERIES

## SINGLE PHASE



H2-3K-S2 | H2-3.6K-S2 | H2-4K-S2  
H2-5K-S2 | H2-6K-S2



Easy setting of  
smart working modes

**AFCI** AFCI (optional)

**16A** DC 16A/ string matched  
with ultra high PV modules



Battery fast charging/  
discharging supported

**150%** 150% DC oversizing

**UPS** With UPS function  
switch time  $\leq$  10ms

# H2-3K/ 3.6K/ 4K/ 5K/ 6K-S2

| MODEL   | H2-3K-S2  | H2-3.6K-S2 | H2-4K-S2  | H2-5K-S2  | H2-6K-S2  |
|---|---|------------|-----------|-----------|-----------|
| <b>DC Input</b>                               |   |            |           |           |           |
| Max. PV Array Power [Wp]@STC                  | 4500  | 5400       | 6000      | 7500      | 9000      |
| Max. DC Voltage [V]                           | 550   |            |           |           |           |
| MPPT Voltage Range [V]                        | 90~500  |            |           |           |           |
| Rated DC Voltage [V]                          | 360   |            |           |           |           |
| Start Voltage [V]                             | 100   |            |           |           |           |
| Max. DC Input Current [A]                     | 16 / 16   |            |           |           |           |
| Max. DC Short Circuit Current [A]             | 19.2 / 19.2   |            |           |           |           |
| No. of MPPT                                   | 2   |            |           |           |           |
| No. of Strings per MPPT                       | 1/1   |            |           |           |           |
| <b>Battery Parameters</b>                     |   |            |           |           |           |
| Battery Type                                  | Lithium battery   |            |           |           |           |
| Battery Voltage Range [V]                     | 85~450  |            |           |           |           |
| Rated Charging/ Discharging Current [A]       | 30/30   |            |           |           |           |
| Rated Charging/ Discharging Power [W]         | 3000  | 3680       | 4000      | 5000      | 6000      |
| <b>AC Output [On-grid]</b>                    |   |            |           |           |           |
| Rated AC Power [W]                            | 3000  | 3680       | 4000      | 5000      | 6000      |
| Max. Apparent Power [VA]                      | 3300  | 3680       | 4400      | 5500      | 6000      |
| Rated AC Current [A]@230Vac                   | 13.0  | 16.0       | 17.4      | 21.7      | 26.1      |
| Max. AC Current [A]                           | 15.0  | 16.7       | 20.0      | 25        | 27.3      |
| Rated AC Voltage                              | L/N/PE, 220/ 230V   |            |           |           |           |
| Rated Output Frequency [Hz]                   | 50/ 60 ±5   |            |           |           |           |
| Power Factor [cos φ]                          | 0.8 leading~0.8 lagging   |            |           |           |           |
| Total Harmonic Distortion [THDi]              | <3%   |            |           |           |           |
| <b>AC Output [Back-up Mode]</b>               |   |            |           |           |           |
| Rated Output Power [VA]                       | 3000  | 3680       | 4000      | 5000      | 6000      |
| Max. Output Current [A]                       | 13.6  | 16.7       | 18.2      | 22.7      | 27.3      |
| Rated Output Voltage                          | L/N/PE, 220/ 230V   |            |           |           |           |
| Rated Output Frequency [Hz]                   | 50/ 60 ±5   |            |           |           |           |
| Output THDv (@ Liner Load)                    | <3%   |            |           |           |           |
| Peak Output Apparent Power [VA]               | 3600, 60s   | 4200, 60s  | 4800, 60s | 6000, 60s | 7200, 60s |
| <b>Efficiency</b>                             |   |            |           |           |           |
| Max. Efficiency                               | 97.6%   |            |           |           |           |
| Euro Efficiency                               | 97.0%   |            |           |           |           |
| Max. Battery Charging/ Discharging Efficiency | 96.6%   |            |           |           |           |
| <b>Protection</b>                             |   |            |           |           |           |
| AC Short Circuit Protection                   | Integrated  |            |           |           |           |
| Overload Protection                           | Integrated  |            |           |           |           |
| Residual Current Monitoring Unit              | Integrated  |            |           |           |           |
| Battery Input Reverse Polarity Protection     | Integrated  |            |           |           |           |
| Anti-islanding Protection                     | Integrated  |            |           |           |           |
| AC Surge Protection                           | Type II   |            |           |           |           |
| DC Surge Protection                           | Type II   |            |           |           |           |
| AFCI  | Optional  |            |           |           |           |
| <b>Interface</b>                              |   |            |           |           |           |
| PV Connection                                 | MC4/H4  |            |           |           |           |
| Battery Connection                            | Quick connector   |            |           |           |           |
| AC Output                                     | Plug-in connector   |            |           |           |           |
| Display                                       | LED+APP (Bluetooth)   |            |           |           |           |
| Communication Port                            | CAN+RS485+DRM+CT+RS232  |            |           |           |           |
| Communication                                 | Wi-Fi/ Ethernet/4G (Optional)   |            |           |           |           |
| <b>General Data</b>                           |   |            |           |           |           |
| Topology                                      | Transformerless   |            |           |           |           |
| Operating Temperature Range                   | -40°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]                                   | <25   |            |           |           |           |
| Ingress Protection                            | IP65  |            |           |           |           |
| Mounting                                      | Rear panel  |            |           |           |           |
| Dimensions [H*W*D] [mm]                       | 380.5*519*193.5   |            |           |           |           |
| Weight [kg]                                   | 18.5  |            |           |           |           |
| Warranty [Year]                               | 5/10/15/20  |            |           |           |           |
| Applicable Standard                           | CEI 0-21, VDE4105-AR-N, VDE0126-1-1, EN50438, G98, G99, EN50549, AS4777.2<br>IEC62109-1&-2, EN61000-6-1/2/3/4 |            |           |           |           |