

Datasheet

All-In-One Spec.

Series name: Agave

| Model | WH-SPHA3.6H- 5.12kWh WH-SPHA3.6H- 10.24kWh | WH-SPHA5.0H- 5.12kWh WH-SPHA5.0H- 10.24kWh | WH-SPHA6.0H- 5.12kWh WH-SPHA6.0H- 10.24kWh |
|--|---|---|---|
| PV Input | | | |
| Absolute max Voltage [d.c.V] | 600 | | |
| MPPT Voltage Range [d.c.V] | 100...550 | | |
| Max. DC Input Power [W] | 4800 | 6650 | 8000 |
| Start-up Voltage [d.c.V] | 90 | | |
| Rated Operating Voltage [d.c.V] | 360 | | |
| Max. Input Current [d.c.A] | 12.5/12.5 | | |
| Max. inverter backfeed current to array[d.c.A] | 0 | | |
| Isc PV[d.c.A] | 18/18 | | |
| NO. of MPP Trackers | 2 | | |
| NO. of Strings per MPP Tracker | 1 | | |
| Battery Model | WH-BXB5.12 (For models: WH-SPHA3.6H-5.12kWh WH-SPHA5.0H-5.12kWh WH-SPHA6.0H-5.12kWh) | WH-BXB10.24 (For models: WH-SPHA3.6H-10.24kWh WH-SPHA5.0H-10.24kWh WH-SPHA6.0H-10.24kWh) | |
| Battery Capacity | LiFePO4 5.12kWh | LiFePO4 10.24kWh | |
| Nominal Battery Voltage [d.c.V] | 204.8 | 409.6 | |
| Battery Voltage Range [d.c.V] | 160...227.2 | 320...454.4 | |
| Max. Charge/Discharge Current [d.c.A] | 25/25 | | |
| Depth of Discharge [%] | 90 | | |
| AC Input/Output | | | |
| Rated output Power [W] | 3600 | 5000 | 6000 |
| Rated Apparent Power to Grid [VA] | 3600 | 5000 | 6000 |
| Max. Apparent Power to Grid [VA] | 3600 | 5000 | 6000 |
| Max. Apparent Power from Grid [VA] | 7200 | 10000 | 12000 |
| Rated Voltage [a.c.V] | 220/230/240 | | |
| Rated Frequency [Hz] | 50/60 | | |
| Rated AC Current to Grid[a.c.A] | 16 | 21.7 | 26.1 |
| Rated AC Current from Grid[a.c.A] | 32 | 43.4 | 52.2 |
| Inrush current[a.c.A] | 16 a.c.A (peak), 11.3 us (duration) | | |
| Max. output fault current[a.c.A] | 57 (peak), 40 (rms) | | |
| AC output Maximum output overcurrent protection[a.c.A] | 40 | | |
| AC input power factor | -0.8...+0.8 | | |

| | | | |
|---|-------------------------------------|--------------------|------|
| AC output power factor | 1(-0.8...+0.8 adjustable) | | |
| THDi | < 3% | | |
| EPS Output (With Battery) | | | |
| Max. Output Power [W] | 3600 | 5000 | 6000 |
| Rated Apparent Power [VA] | 4320 | 6000 | 7200 |
| Max. Apparent Power [VA] | 4320 | 6000 | 7200 |
| Rated Voltage [a.c.V] | 230 (±2%) | | |
| Norminal Frequency [Hz] | 50/60 (±0.2%) | | |
| Rated Output Current [a.c.A] | 18.8 | 26.1 | 31.3 |
| Inrush current[a.c.A] | 16 a.c.A (peak), 11.3 us (duration) | | |
| Max. output fault current[a.c.A] | 57 (peak), 40 (rms) | | |
| EPS output Maximum output overcurrent protection[a.c.A] | 40 | | |
| Switch time [ms] | < 10 | | |
| THDv @ Linear Load [%] | < 2 | | |
| Power Factor | -0.8...+0.8 | | |
| Efficiency | | | |
| PV Max. Efficiency[%] | 97.6 | | |
| PV Europe Efficiency[%] | 97 | | |
| PV Max. MPPT Efficiency[%] | 99.9 | | |
| Battery Charge by PV Max. Efficiency[%] | 98 | | |
| Battery Discharge Efficiency[%] | 96.7 | | |
| Protection | | | |
| Over/Under voltage protection | Yes | | |
| DC isolation protection | Yes | | |
| DC injection monitoring | Yes | | |
| Residual current detection | Yes | | |
| Anti-islanding protection | Yes | | |
| Over load protection | Yes | | |
| Battery Input reverse polarity protection | Yes | | |
| PV reverse polarity protection | Yes | | |
| Surge protection | Yes | | |
| Over heat protection | Yes | | |
| General Data | WH-BXB5.12 | WH-BXB10.24 | |
| Dimension (W/D/H)[mm] | 550*233*1125 | 550*233*1750 | |
| Dimension of Packing (W/D/H)[mm] | 645*302*1370 | 655*302*2055 | |
| Net weight [kg] | 68 | 115 | |
| Gross weight [kg] | 78 | 130 | |
| Operation Temp [°C] | -10...+55 | | |
| Relative Humidity[%] | 0...95 | | |
| Altitude [m] | <= 3000 | | |
| Ingress Protection | IP65 | | |
| Cooling | Natural | | |

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|-------------------------------|---|
| Inverter Topology | Non-isolated |
| Over voltage category | III(AC), II (DC) |
| Protective class | Class I |
| Active anti-islanding method | frequency shift |
| Human Interface | LED/APP |
| BMS Communication Interface | RS485/CAN |
| Meter Communication Interface | RS485 |
| Noise Emission [dB] | < 25 |
| Standby Power Consumption [W] | < 5 |
| Safety and Approvals | |
| Safety | IEC62040.1:2019 AS/NZS 4777.2:2020 IEC 62109-1&-2 IEC62619 UN38.3 IEC60730-1 |
| EMC | EN IEC 61000-6-2:2019 EN IEC 61000-6-3:2021 |

S_{max}=S_{rated} for AS/NZS 4777.2
Made in China