

TECHNICAL SPECIFICATIONS **US SERIES** Split-Phase Hybrid HI&AC1-3.8-US / 5.7 / 7.6 / 9.6 / 11.4

| Model | AC1-3.8-US H1-3.8-US | AC1-5.7-US H1-5.7-US | AC1-7.6-US H1-7.6-US | AC1-9.6-US H1-9.6-US | AC1-11.4-US H1-11.4-US |
|--|---|-------------------------|-------------------------|-------------------------|---------------------------|
| PV INPUT (ONLY FOR HYBRID) | | | | | |
| Max. Input Power [W] | 5700 | 8550 | 11400 | 14400 | 17100 |
| Max. Input Voltage [V] | | | 600 | | |
| Start-up Input Voltage [V] | | | 100 | | |
| Rated Input Voltage [V] | | | 380 | | |
| MPPT Operating Voltage Range [V] | | | 80~550 | | |
| MPPT Operating Voltage Range [V] (Full Load) | 204~500 | 204~500 | 271~500 | 257~500 | 305~500 |
| Max. Input Current [A] | | 28 / 14 | | | 28 / 14 / 14 |
| Max. Short-circuit Current [A] | | 44 / 22 | | | 44 / 22 / 22 |
| No. of Independent MPP Trackers | | 2 | | | 3 |
| No. of Strings per MPP Tracker | | 2 / 1 | | | 2 / 1 / 1 |
| BATTERY CONNECTION | | | | | |
| Battery Type | Lithium Battery (LFP) | | | | |
| Battery Voltage Range [V] | 85~460 | | | | |
| Rated Battery Voltage [V] | 360 | | | | |
| Max. Continuous Charge / Discharge Current [A] | 50 | | | | |
| Max. Continuous Charge / Discharge Power [W] (for H1) | 5700/4180 | 8550/6270 | 11400/8360 | 14400/10560 | 17100/12540 |
| | (for AC1) 3800/4180 | 5700/6270 | 7600/8360 | 9600/10560 | 11400/12540 |
| Max. Discharge Current (60s) [A] | 60 | | | | |
| BMS Communication Interface | CAN 2.0 | | | | |
| AC INPUT AND OUTPUT (GRID) | | | | | |
| Max. AC Input Power [VA] | 3800 | 5700 | 7600 | 9600 | 11400 |
| Max. AC Input Current [A] | 16 | 24 | 32 | 40 | 48 |
| Input Voltage Range [V] | 211~264 | | | | |
| Input Frequency Range [Hz] | 57~63 | | | | |
| Rated Output Power [W] | 3800 | 5700 | 7600 | 9600 | 11400 |
| Max. Output Apparent Power [VA] | 3800 | 5700 | 7600 | 9600 | 11400 |
| Rated Output Current [A] | 15.8 | 23.8 | 31.7 | 40.0 | 47.5 |
| Max. Output Current [A] | 15.8 | 23.8 | 31.7 | 40.0 | 47.5 |
| Rated Grid Voltage [V] | 240 (211~264) | | | | |
| Rated Grid Frequency [Hz] | 57~63 | | | | |
| Power Factor | >0.99 (Adjustable from 0.8 leading to 0.8 lagging) | | | | |
| THDi | <3 @rated power | | | | |
| AC OUTPUT (BACKUP) | | | | | |
| Rated Output Power [W] | 3800 | 5700 | 7600 | 9600 | 11400 |
| Max. Output Apparent Power [VA] | 4180 | 6270 | 8360 | 10560 | 12540 |
| Peak Output Apparent Power (10min) [VA] | 4560 | 6840 | 9120 | 11520 | 13680 |
| Peak Output Apparent Power (60s) [VA] | 5130 | 7695 | 10260 | 12960 | 15390 |
| Max. Continuous Output Current [A] | 17.4 | 26.1 | 34.8 | 44.0 | 52.3 |
| Rated Output Voltage [V] | 120 / 240 | | | | |
| Rated Output Frequency [Hz] | 60 | | | | |
| THDv (Linear Load) [%] | <3 @rated power | | | | |
| Imbalance for Split-Phase Loads [%] | 100 | | | | |
| EFFICIENCY | | | | | |
| CEC Efficiency [%] | 97.00 | | | | |
| Max. Efficiency [%] | 97.60 | | | | |
| Max. Battery Discharge Efficiency (BAT to AC) (@full load, 340Vdc) [%] | 97.40 | | | | |
| PROTECTION | | | | | |
| Insulation Monitoring | YES | | | | |
| Residual Current Monitoring | YES | | | | |
| DC Reverse Polarity Protection | YES | | | | |
| Anti-islanding Protection | YES | | | | |
| AC Short-circuit Protection | YES | | | | |
| AC Overcurrent / Overvoltage Protection | YES | | | | |
| DC Switch | YES | | | | |
| SPD | DC: Type II, /AC: Type II | | | | |
| AFCI | YES | | | | |
| GENERAL DATA | | | | | |
| Dimensions (HxWxD) [inch] | 25.2*17.7*9.6 inch (640*450*244mm) | | | | |
| Weight [lbs] | 83.3 (38kg) | | | | |
| Installation | Wall-mounted | | | | |
| Topology | Transformerless | | | | |
| Cooling Method | Natural convection | | | | |
| Noise Emission [dB] | <35 | | | | |
| Max. Operating Altitude | 9843 ft (3000 m), derating above 6560 ft (2000 m) | | | | |
| Operating Temperature Range | -13°F~+140°F (-25°C ~ +60°C), derating above 104°F (40°C) | | | | |
| Humidity [%] | 0 ~ 100 (No Condensation) | | | | |
| Protection Degree | Type 4X | | | | |
| Standby consumption [W] | <25 | | | | |
| Monitoring Module | WiFi+LAN, 4G (Optional) | | | | |
| Communication | CAN2.0, RS485, SUNSPEC | | | | |
| Display | LED, App, Website | | | | |
| Warranty | 10 Years | | | | |
| STANDARD COMPLIANCE (MORE AVAILABLE UPON REQUEST) | | | | | |
| Safety | UL1741, UL1741 SA, UL1699B, CSA C22.2, UL62109-1, UL1998 | | | | |
| EMC | FCC Part 15 Class B | | | | |
| Grid Regulation | IEEE1547, IEEE1547.1, Rule 21 | | | | |