

# DWH-30K~70K-HP3US-S

Three Phase  
4 MPPTs Hybrid Inverter

US Standard

5-Year Warranty



## Features



### Native Compatibility with US Grids

- 120/208V & 277/480V for all commercial needs
- Supports mixed single and three-phase loads
- Simplifies wiring and lowers cost



### Seamless On/Off-Grid Operation

- Smooth grid/off-grid switching
- Operates reliably with or without batteries
- Grid & generator inputs, 2X bypass current



### Dual Battery Ports, 200A Total Output

- 2 high-voltage battery inputs, 100A per port
- Up to 200A total charge/discharge current
- Flexible with high-capacity battery systems



### Exceptional Energy Conversion

- 100% unbalanced three-phase output
- 4 MPPTs with up to 99.9% efficiency
- 2X PV oversizing, up to 100kW



### Durable & All-Weather Ready

- Advanced SiC for peak efficiency
- IP66-rated for harsh outdoor use
- Compact, plug-and-play installation



### Scalable & Smart Energy Control

- Up to 8 in parallel for system expansion
- AC-coupling for easy system upgrades
- Built-in EMS and cloud monitoring & OTA

| TECHNICAL SPECIFICATION                       |                                                                                               |                                 |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------|
| Model                                         | DWH-30K-HP3US / DWH-30K-HP3US-S                                                               | DWH-70K-HP3US / DWH-70K-HP3US-S |
| INVERTER INPUT/OUTPUT (GRID)                  |                                                                                               |                                 |
| Rated Power (Input/Output) (kW)               | 60/30                                                                                         | 140/70                          |
| Rated Voltage (V a.c.)                        | 120/208,3W+N+PE                                                                               | 277/480,3W+N+PE                 |
| Rated Frequency (Hz)                          | 50/60                                                                                         |                                 |
| Power Factor Range                            | 0.8 leading~0.8 lagging                                                                       |                                 |
| Switch Time (ms)                              | <20                                                                                           |                                 |
| Max.Continuous Current (Input/Output)(A a.c.) | 166.6/83.3                                                                                    | 168.6/84.3                      |
| Max. Output Overcurrent Protection (A a.c.)   | 124.9                                                                                         | 126.5                           |
| BATTERY                                       |                                                                                               |                                 |
| Battery Type                                  | Lithium/Lead-acid                                                                             |                                 |
| Battery Voltage Range (V d.c.)                | 150~700                                                                                       | 300~800                         |
| Rated Battery Voltage (V d.c.)                | 150                                                                                           | 300                             |
| Max. Charge Current (A d.c.)                  | 2*100                                                                                         |                                 |
| Max. Discharge Current (A d.c.)               | 2*100                                                                                         |                                 |
| Reverse Connect Protection                    | Yes                                                                                           |                                 |
| PV INPUT                                      |                                                                                               |                                 |
| No. of MPPT Tracker/Strings                   | 4/2+2+2+2                                                                                     |                                 |
| Max. PV Input Power (kW)                      | 60                                                                                            | 100                             |
| Max. DC Voltage (Vd.c.)                       | 1000                                                                                          |                                 |
| MPPT Voltage Range (V d.c.)                   | 150~850                                                                                       |                                 |
| Start-up Voltage (V d.c.)                     | 200                                                                                           |                                 |
| Max. Input Current/string (A d.c.)            | 8*20                                                                                          |                                 |
| Isc PV (Absolute Maximum)/string (A d.c.)     | 8*30                                                                                          |                                 |
| AC OUTPUT (EPS)/GENERATOR                     |                                                                                               |                                 |
| EPS Rated Output Voltage (V a.c.)             | 120/208,3W+N+PE                                                                               | 277/480,3W+N+PE                 |
| EPS Rated Output Frequency (Hz)               | 50/60                                                                                         |                                 |
| EPS Rated Output Active Power (kW)            | 30                                                                                            | 70                              |
| EPS Rated Output Apparent Power (kVA)         | 30                                                                                            | 70                              |
| EPS Rated Output Current (A a.c.)             | 83.3                                                                                          | 84.3                            |
| Overload Capacity (Off Grid)                  | 110% 30s/120% 10s/150% 0.2s                                                                   |                                 |
| EFFICIENCY                                    |                                                                                               |                                 |
| MPPT Efficiency                               | 99.90%                                                                                        |                                 |
| Euro-efficiency                               | 97.00%                                                                                        |                                 |
| Max. Efficiency                               | 98.00%                                                                                        |                                 |
| PROTECTION&FEATURE                            |                                                                                               |                                 |
| Insulation Monitoring                         | Yes                                                                                           |                                 |
| Residual Current Monitoring                   | Yes                                                                                           |                                 |
| Parallel Function                             | Yes,up to 8pcs                                                                                |                                 |
| Protection Degree                             | IP66                                                                                          |                                 |
| Certifications                                | UL1741, FCC Part 15B, UI1547, UL1998, UL1699B, HECO SRD 2.0, CEC efficiency                   |                                 |
| Other Protection                              | Ground fault current monitoring, Earth fault detection, Residual current (RCD) Detection etc. |                                 |
| GENERAL PARAMETER                             |                                                                                               |                                 |
| Storage Temperature                           | -25°C~+60°C                                                                                   |                                 |
| Operating Temperature                         | -25°C~+60°C (>+45°C Derating)                                                                 |                                 |
| Humidity                                      | 0%~95% (Non-condensing)                                                                       |                                 |
| Max. Operating Altitude (m)                   | 4000 (>2000 Derating)                                                                         |                                 |
| Noise (dB)                                    | <75                                                                                           |                                 |
| Warranty (year)                               | 5                                                                                             |                                 |
| Machine Dimensions(W*H*D) (mm)                | 544*953*278                                                                                   |                                 |
| Machine Weight/N.W. (kg)                      | 90                                                                                            |                                 |
| DISPLAY & COMMUNICATION                       |                                                                                               |                                 |
| Display                                       | App+ LED/ LCD (-S version)                                                                    |                                 |
| Interface                                     | RS485/WiFi/CAN/DRM/Bluetooth (Optional: LAN/Meter)                                            |                                 |

- The AC voltage and frequency range can differ according to the grid standards of each country.
- Please note that all specifications are subject to change without prior notice.