

# DWH-8K~15K-LSPSA-S

Split Phase  
3 MPPTs Hybrid Inverter

5-Year Warranty



## Features



275A Max. Charge/Discharge  
for Heavy Loads



<10ms UPS-Level Switching  
for Backup Power



Dual AC Ports: Grid &  
Generator / Smart Load



AC-Coupling Ready  
Retrofit Without Rebuild



3-Phase Support  
Parallel up to 6 Units



Rugged NEMA 4X Enclosure  
for Enhanced Durability

## TECHNICAL SPECIFICATION

| Model                                 | DWH-8K-LSPSA /<br>DWH-8K-LSPSA-S                                            | DWH-10K-LSPSA /<br>DWH-10K-LSPSA-S | DWH-12K-LSPSA /<br>DWH-12K-LSPSA-S | DWH-15K-LSPSA /<br>DWH-15K-LSPSA-S |
|---------------------------------------|-----------------------------------------------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| INVERTER INPUT/OUTPUT (GRID)          |                                                                             |                                    |                                    |                                    |
| Rated Power (kW)                      | 8                                                                           | 10                                 | 12                                 | 15                                 |
| Rated Voltage (V a.c.)                | 120/240 (Split Phase),208 (2/3Phase)                                        |                                    |                                    |                                    |
| Rated Frequency (Hz)                  | 60                                                                          |                                    |                                    |                                    |
| Power Factor Range                    | 0.8 leading~0.8 lagging                                                     |                                    |                                    |                                    |
| Switch Time (ms)                      | <10                                                                         |                                    |                                    |                                    |
| Max. Input Current ( A a.c.)          | 50                                                                          |                                    |                                    | 62.5                               |
| Max. Output Current ( A a.c.)         | 33.4                                                                        | 41.7                               | 50                                 | 62.5                               |
| Max. Output Overcurrent Protection    | 250 V a.c./125 A a.c.                                                       |                                    |                                    |                                    |
| GEN Rated Power (kW)                  | 8                                                                           | 10                                 | 12                                 | 15                                 |
| BATTERY                               |                                                                             |                                    |                                    |                                    |
| Battery Type                          | Lithium /Lead-acid                                                          |                                    |                                    |                                    |
| Battery Voltage Range ( V d.c.)       | 40~60                                                                       |                                    |                                    |                                    |
| Rated Battery Voltage ( V d.c.)       | 51.2                                                                        |                                    |                                    |                                    |
| Max. Charge Current ( A d.c.)         | 167                                                                         | 210                                | 250                                | 275                                |
| Max. Discharge Current ( A d.c.)      | 167                                                                         | 210                                | 250                                | 275                                |
| Reverse Connect Protection            | Yes                                                                         |                                    |                                    |                                    |
| PV INPUT                              |                                                                             |                                    |                                    |                                    |
| No. of MPPT Tracker/Strings           | 3/2+2+2                                                                     | 3/2+2+2                            | 3/2+2+2                            | 3/2+2+2                            |
| Max. PV Array Power (kW)              | 12                                                                          | 15                                 | 18                                 | 22.5                               |
| Max. DC Voltage ( V d.c.)             | 550                                                                         |                                    |                                    |                                    |
| MPPT Voltage Range ( V d.c.)          | 100~500                                                                     |                                    |                                    |                                    |
| Start-up Voltage ( V d.c.)            | 120                                                                         |                                    |                                    |                                    |
| Max. Input Current ( A d.c.)          | 26+26+26                                                                    |                                    |                                    |                                    |
| Isc PV (Absolute Maximum) ( A d.c.)   | 39                                                                          |                                    |                                    |                                    |
| AC OUTPUT (EPS)                       |                                                                             |                                    |                                    |                                    |
| EPS Rated Output Voltage ( V a.c.)    | 120/240 (Split Phase),208 (2/3Phase)                                        |                                    |                                    |                                    |
| EPS Rated Output Frequency (Hz)       | 60                                                                          |                                    |                                    |                                    |
| EPS Rated Output Active Power (kW)    | 8                                                                           | 10                                 | 12                                 | 15                                 |
| EPS Rated Output Apparent Power (kVA) | 8                                                                           | 10                                 | 12                                 | 15                                 |
| EPS Rated Output Current ( A a.c.)    | 33.4                                                                        | 41.7                               | 50                                 | 62.5                               |
| Overload Capacity (Off Grid)          | 200%10s                                                                     |                                    |                                    |                                    |
| EFFICIENCY                            |                                                                             |                                    |                                    |                                    |
| MPPT Efficiency                       | 99.50%                                                                      |                                    |                                    |                                    |
| California-efficiency                 | 96.50%                                                                      |                                    |                                    |                                    |
| Max. Efficiency                       | 97.50%                                                                      |                                    |                                    |                                    |
| PROTECTION&FEATURE                    |                                                                             |                                    |                                    |                                    |
| Insulation Monitoring                 | Yes                                                                         |                                    |                                    |                                    |
| Residual Current Monitoring           | Yes                                                                         |                                    |                                    |                                    |
| Parallel Function                     | Yes                                                                         |                                    |                                    |                                    |
| Protection Degree                     | NEMA 4X                                                                     |                                    |                                    |                                    |
| Certifications                        | UL1741, FCC Part 15B, UL1547, UL1998, UL1699B, HECO SRD 2.0, CEC efficiency |                                    |                                    |                                    |
| Other Protection                      | Overload, Over temperature, Short circuit, Anti-islanding                   |                                    |                                    |                                    |
| GENERAL PARAMETER                     |                                                                             |                                    |                                    |                                    |
| Storage Temperature                   | -25°C~-60°C(-13°F~+140°F)                                                   |                                    |                                    |                                    |
| Operating Temperature                 | -25°C~-60°C (-13°F~+140°F),>+45°C (+113° F) Derating to 60%                 |                                    |                                    |                                    |
| Humidity                              | 0~95% (Non-condensing)                                                      |                                    |                                    |                                    |
| Operating Altitude (m)                | 4000 (>2000 Derating)                                                       |                                    |                                    |                                    |
| Noise (dB)                            | <45                                                                         |                                    |                                    |                                    |
| Warranty (year)                       | 5                                                                           |                                    |                                    |                                    |
| Machine Dimensions(W*H*D) (mm)        | 466*756*242 (18.35*29.76*9.35 in)                                           |                                    |                                    |                                    |
| Machine Weight/N.W. (kg)              | 45 (99.21 lbs)                                                              |                                    |                                    |                                    |
| DISPLAY&COMMUNICATION                 |                                                                             |                                    |                                    |                                    |
| Display                               | App+ LED/ LCD (–S version)                                                  |                                    |                                    |                                    |
| Interface                             | RS485/ WiFi/ CAN (Optional: Bluetooth /LAN /4G / 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.