

# DWA-1.2K~5.5K-LP1EU

Single Phase  
Off-Grid Inverter (LV)

2-Year Warranty



## Features



Integrated MPPT  
Controller



6kW Maximum PV  
Input Power



Up to 9 Parallel Units



Combined PV and  
Utility Load



Optional WiFi for  
Remote Monitoring



Work with or Without  
Battery

### TECHNICAL SPECIFICATION

| Model                                 | DWA-1K2-LP1EU                                               | DWA-2K-LP1EU | DWA-3K6-LP1EU  | DWA-5K-LP1EU        | DWA-5K5-LP1EU | DWA-5K-LP1EU DO     |
|---------------------------------------|-------------------------------------------------------------|--------------|----------------|---------------------|---------------|---------------------|
| AC INPUT                              |                                                             |              |                |                     |               |                     |
| Rated Voltage (V a.c.)                | 208 / 220 / 230 / 240,L+N+PE                                |              |                |                     |               |                     |
| Rated Frequency (Hz)                  | 50/60                                                       |              |                |                     |               |                     |
| Current (Maximum Continuous) (A a.c.) | 10                                                          | 17           | 20             | 40                  | 40            | 40                  |
| INVERTER OUTPUT                       |                                                             |              |                |                     |               |                     |
| Rated Power (kW)                      | 1.2                                                         | 2            | 3.6            | 5                   | 5.5           | 5                   |
| Rated Voltage ( V a.c.)               | 208 / 220 / 230 / 240,L+N+PE                                |              |                |                     |               | L1+N1+L2+N2+PE      |
| Power Factor                          | 1                                                           |              |                |                     |               |                     |
| Wave Form                             | Pure Sine Wave                                              |              |                |                     |               |                     |
| Switch Time (ms)                      | <10 (Typical)                                               |              |                |                     |               |                     |
| Inverter Efficiency (Peak)            | 90.5%@12V d.c.                                              | 91%@12V d.c. | 92.7%@24V d.c. | 94%@48V d.c.        | 94%@48V d.c.  | 94%@48V d.c.        |
| Current (Maximum Continuous) (A a.c.) | 5.2                                                         | 8.7          | 15.6           | 22.7                | 25            | 25                  |
| Maximum Output Overcurrent Protection | 102%~110% 1min / 110%~130% 10s / 130%~150% 3s / 150% 0.2s   |              |                |                     |               |                     |
| BATTERY                               |                                                             |              |                |                     |               |                     |
| Battery Type                          | Lithium / Lead-acid                                         |              |                |                     |               |                     |
| Rated Battery Voltage (V d.c.)        | 12                                                          | 12           | 24             | 48                  | 48            | 48                  |
| Battery Voltage Range (V d.c.)        | 10~15                                                       | 10~15        | 21~30.2        | 42~56.4             | 42~56.4       | 42~56.4             |
| Max.Charge Current (A d.c.)           | 120                                                         | 100          | 100            | 80                  | 100           | 80                  |
| PV INPUT                              |                                                             |              |                |                     |               |                     |
| No. of MPPT Tracker/Strings           | 1/1                                                         |              |                |                     |               |                     |
| Max. PV Array Power (kW)              | 1                                                           | 3            | 5              | 6                   | 6             | 6                   |
| Max. DC Voltage (V d.c.)              | 125                                                         | 450          | 500            | 500                 | 500           | 500                 |
| MPPT Voltage Range (V d.c.)           | 15~100                                                      | 30~400       | 40~450         | 120~430             | 120~430       | 120~430             |
| Start-up Voltage (V d.c.)             | 20                                                          | 40           | 120            | 120                 | 120           | 120                 |
| MPPT Maximum Charge Current (A d.c.)  | 60                                                          | 100          | 100            | 80                  | 100           | 80                  |
| Max. Input Current (A d.c.)           | 14                                                          | 18           | 18             | 18                  | 18            | 18                  |
| Isc PV (Absolute Maximum) (A d.c.)    | 15                                                          | 22           | 22             | 22                  | 22            | 22                  |
| PROTECTION & FEATURE                  |                                                             |              |                |                     |               |                     |
| Parallel Function                     | No                                                          | No           | No             | Yes (9pcs,optional) | No            | Yes (9pcs,optional) |
| Protection Degree                     | IP20,Indoor only                                            |              |                |                     |               |                     |
| Certifications                        | IEC 62109-1/2,ENIEC61000-6-1,ENIEC61000-6-3                 |              |                |                     |               |                     |
| Other Protection                      | Overload, Over temperature, Short circuit                   |              |                |                     |               |                     |
| GENERAL PARAMETER                     |                                                             |              |                |                     |               |                     |
| Storage Temperature                   | -15°C~+60°C                                                 |              |                |                     |               |                     |
| Operating Temperature                 | -10°C~+50°C                                                 |              |                |                     |               |                     |
| Humidity                              | 20%~95% (Non-condensing)                                    |              |                |                     |               |                     |
| Operating Altitude (m)                | 4000 (>1000 Derating)                                       |              |                |                     |               |                     |
| Noise (dB)                            | <50                                                         |              |                |                     |               |                     |
| Warranty (year)                       | 2                                                           |              |                |                     |               |                     |
| Machine Dimensions (W*H*D) (mm)       | 330*228*90                                                  | 270*311*100  | 285*435*100    | 315*470*120         | 315*470*120   | 315*528*120         |
| Machine Weight/N.W. (kg)              | 3.2                                                         | 4.5          | 6.5            | 8.6                 | 8.6           | 9.6                 |
| DISPLAY & COMMUNICATION               |                                                             |              |                |                     |               |                     |
| Display                               | LCD Display (Display Running Mode, Loads/Input/Output etc.) |              |                |                     |               |                     |
| Interface                             | RS485 / CAN / Dry Contact / WiFi (Optional)                 |              |                |                     |               |                     |

• Please note that all specifications are subject to change without prior notice.

[1]: DWA-5K-LP1EU\_DO is a dualoutput model with two output ports.