

DWA-6K5-LP1EU_DO

Single Phase Off-Grid Inverter (LV)

2-Year Warranty



Features



High PV Input Capacity

Supports up to 9kW solar input, with 500V max voltage and 27A max current



Multi-Power & Dual AC Output

Supports grid, generator, battery or battery-less; Dual AC outputs with intelligent load prioritization



Intelligent MPPT & Priority

Smart MPPT control with configurable PV/grid priority settings



Remote Monitoring & Display

Built-in WiFi for remote monitoring and LCD screen for real-time data



Compact Size with Higher Power

6.5kW output in a smaller, lighter chassis for flexible installation



Extreme Temperature Tolerance

Reliable operation from -10°C to +60°C

TECHNICAL SPECIFICATION

Model	DWA-5K-LP1EU_DO	DWA-6.5K-LP1EU_DO
AC INPUT		
Rated Voltage (V a.c.)	220/230/240,L+N+PE	
Rated Frequency (Hz)	50/60	
Current (Maximum Continuous) (A a.c.)	40 (Bypass mode)	
INVERTER OUTPUT		
Rated Power (kW)	5	6.5
Rated Voltage (V a.c.)	220/230/240,L1+N1+L2+N2+PE	
Power Factor	1	
Wave Form	Pure Sine Wave	
Switch Time (ms)	<10	
Inverter Efficiency (Peak)	93.5% (Max)	94%@48V d.c.
Current (Maximum Continuous) (A a.c.)	22.7	27.3
Maximum Output Overcurrent Protection	102%~120% 60s,>120% 10s	
BATTERY		
Battery Type	Li-ion/Lead-acid	
Rated Battery Voltage (V d.c.)	24	48
Battery Voltage Range (V d.c.)	21~30.2	42~56.4
Max.Charge Current (A d.c.)	160	120
PV INPUT		
No. of MPPT Tracker/Strings	1	
Max. PV Array Power (kW)	9	
Max. DC Voltage (V d.c.)	500	
MPPT Voltage Range (V d.c.)	60~450	
Start-up Voltage (V d.c.)	80	
MPPT Maximum Charge Current (A d.c.)	160	120
Max. Input Current (A d.c.)	27	
Isc PV (Absolute Maximum) (A d.c.)	30	
PROTECTION & FEATURE		
Parallel Function	NO	Yes (up to 9pcs,optional)
Protection Degree	IP20,Indoor Only	
Certifications	IEC 62109-1/2, EN IEC 61000-6-1, EN IEC 61000-6-3	
Other Protection	Over voltage Protection; Over load protection; Short circuit protection; Over temperature protection; Surge protection	
GENERAL PARAMETER		
Storage Temperature	-15°C~+60°C	
Operating Temperature	-10°C~+60°C	
Humidity	5%~95% (Non-condensing)	
Operating Altitude (m)	4000(>1000 Derating)	
Noise (dB)	<55	
Warranty (year)	2	
Machine Dimensions (W*H*D) (mm)	334*413*116	
Machine Weight/N.W. (kg)	8.8	
DISPLAY & COMMUNICATION		
Display	LCD Display (Display Running Mode,Loads/Input/Output etc.)	
Interface	RS485 / CAN / WiFi(Optional)	

- 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.