

DWH-3~6K-HP1EU

Single Phase
2 MPPTs Hybrid Inverter

5-Year Warranty

High Voltage Residential Hybrid Inverter



Features



Compatible with HV Battery
for Higher Efficiency



<15ms Seamless Switching
for Uninterrupted Power



Inverter + Grid Bypass Supports
up to 2X Total Load Capacity



IP65 Rated, Ultra-silent
Operation below 25dB



Full Output at 4000m Altitude
With No Derating Required



Compact Design for Fast
Easy Installation

TECHNICAL SPECIFICATION					
Model	DWH-3K-HP1EU	DWH-3K7-HP1EU	DWH-4K6-HP1EU	DWH-5K-HP1EU	DWH-6K-HP1EU
INVERTER INPUT/OUTPUT (GRID)					
Rated Power (kW)	3+3 (bypass)	3.68+3.68 (bypass)	4.6+4.6 ^[1] (bypass)	5+5 ^[2] (bypass)	6+6 (bypass)
Rated Voltage (V a.c.)	220/230/240,L+N+PE				
Rated Frequency (Hz)	50/60				
Power Factor Range	0.8 leading~0.8 lagging				
Switch Time (ms)	<15				
Max.Continuous Current (Input/Output)(A a.c.)	13	16	20	21.7	26.1
Max. Output Overcurrent Protection	250 V a.c./60 A a.c.				
BATTERY					
Battery Type	Lithium				
Battery Voltage Range (V d.c.)	85~480				
Rated Battery Voltage (V d.c.)	300				
Max. Charge Current (A d.c.)	35				
Max. Discharge Current (A d.c.)	35				
Reverse Connect Protection	Yes				
PV INPUT					
No. of MPPT Tracker/Strings	2/1+1				
Max. PV Input Power (kW)	3/3	3.68/3.68	4.14/4.14	4.5/4.5	4.5/4.5
Max. DC Voltage (V d.c.)	600				
MPPT Voltage Range (V d.c.)	80~550				
Start-up Voltage (V d.c.)	120				
Max.Input Current/string (A d.c.)	16+16				
Isc PV (Absolute Maximum)/string (A d.c.)	24+24				
AC OUTPUT (EPS)					
EPS Rated Output Voltage (V a.c.)	220/230/240,L+N+PE				
EPS Rated Output Frequency (Hz)	50/60				
EPS Rated Output Active Power (kW)	3	3.68	4.6	5	6
EPS Rated Output Apparent Power (kVA)	3	3.68	4.6	5	6
EPS Rated Output Current (A a.c.)	13	16	20	21.7	26.1
Overload Capacity (Off Grid)	110% 30s/120% 10s/150% 0.2s				
EFFICIENCY					
MPPT Efficiency	99.90%				
Euro-efficiency	97.00%				
Max. Efficiency	97.8%				
PROTECTION & FEATURE					
Insulation Monitoring	Yes				
Residual Current Monitoring	Yes				
Parallel Function	Yes				
Protection Degree	IP65				
Certifications	IEC 62109-1/2,IEC 62477-1, IEC62040-1, IEC 61000-6-1,IEC 61000-6-3, EN 50549-1&-10,G99/G98,CEI0-21, UNE 217001&2/NTS 631,VDE-AR-N 4105,AS/NZS 4777.2 etc.				
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 (Linely derating to 60% when exceed +45°C~+60°C)				
Humidity	0%~100% (Non-condensing)				
Max. Operating Altitude (m)	<4000				
Noise (dB)	<25				
Warranty (year)	5				
Machine Dimensions(W*H*D) (mm)	480*480*180				
Machine Weight/N.W. (kg)	20				
DISPLAY & COMMUNICATION					
Display	LED+APP				

- 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.

[1]: The grid feed in power for VDE-AR-N 4105 is limited 4600 VA & 20A.

[2]: The grid feed in power for AS/NZS 4777.2 is limited 4999 VA & 21.7A.