

DWH-29.9~60K-HP3EU-S

Three Phase
4 MPPTs Hybrid Inverter

5-Year Warranty

High Voltage C&I Hybrid Inverter



Features



Superior Performance & Efficiency

- 100% three-phase unbalanced output
- 4 MPPTs, efficiency up to 99.9%
- 1.67X PV oversizing



Intelligent Energy Management

- Integrated local and remote EMS
- Support diesel generator
- Provides open API for system integration



High Safety & Reliability

- All-SiC technology for higher efficiency
- IP66 protection
- Compact design, plug&play installations



Flexible Expansion & Compatibility

- Supports up to 8 units in parallel
- Enables AC coupling for system retrofit
- Compatible with mainstream Li-ion batteries



Dual Battery Inputs & High Current

- Dual independent battery inputs, 100A charge/discharge per port
- Up to 200A parallel current



System Intelligence & Upgradability

- Supports intelligent module integration
- Modular design for easy expansion

TECHNICAL SPECIFICATION

Model	DWH-29.9K-HP3EU/ DWH-29.9K-HP3EU-S	DWH-30K-HP3EU/ DWH-30K-HP3EU-S	DWH-40K-HP3EU/ DWH-40K-HP3EU-S	DWH-50K-HP3EU/ DWH-50K-HP3EU-S	DWH-60K-HP3EU/ DWH-60K-HP3EU-S
INVERTER INPUT/OUTPUT (GRID)					
Rated Power (kW)	29.9	30	40	50	60
Rated Voltage (V a.c.)	380/400,3W+N+PE				
Rated Frequency (Hz)	50/60				
Power Factor Range	0.8 leading~0.8 lagging				
Max.Continuous Current (Input/Output)(A a.c.)	90.8/45.4	91.2/45.6	121.6/60.8	152/76	182.4/91.2
Max.Output Overcurrent Protection (A a.c.)	68.1/64.7	68.4/65	91.2/86.6	114/108.3	136.7/129.9
BATTERY					
Battery Type	Lithium/Lead-acid				
Battery Voltage Range (V d.c.)	135-850				
Rated Battery Voltage (V d.c.)	150	150	200	250	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)	59.8	60	80	100	
Max.DC Voltage (V d.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.)	380/400,3W+N+PE				
EPS Rated Output Frequency (Hz)	50/60				
EPS Rated Output Active Power (kW)	29.9	30	40	50	60
EPS Rated Output Apparent Power (kVA)	29.9	30	40	50	60
EPS Rated Output Current (A a.c.)	45.4/43.2	45.6/43.3	60.8/57.7	76/72.2	91.2/86.6
Overload Capacity (Off Grid)	110% 30s/120% 10s/150% 0.2s				
EFFICIENCY					
MPPT Efficiency	99.90%				
Euro-efficiency	97.50%				
Max. Efficiency	98.50%				
PROTECTION & FEATURE					
Insulation Monitoring	Yes				
Residual Current Monitoring	Yes				
Parallel Function	Yes,up to 8pcs				
Protection Degree	IP66				
Certifications	IEC 62109-1/2, IEC 62477-1,IEC61000-6-2,IEC 61000-6-4,EN 50549-1&-10, NRS 097-2-1 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)	<65				
Warranty (year)	5				
Machine Dimensions(W*H*D) (mm)	544*880*278				
Machine Weight/N.W. (kg)	88				
DISPLAY&COMMUNICATION					
Display	App+ LED / LCD (-S version)				
Interface	RS485 / WiFi / CAN / DRM (Optional:Bluetooth / 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.