

WSL-HL8~24K-P3EU-S

Three Phase | 2 MPPTs Hybrid Inverter(LV)



- **Extreme Climate Adaptability**
Full-load operation, 45°C without derating
- **High Battery Compatibility**
Max.415A charge/discharge, supports three battery inputs
- **Wide Grid Adaptability**
154V-286V per phase input, 50/60Hz autoadaptation, built-in SPD
- **High Surge & Unbalanced Output**
2× load surge for 10s, 150% three-phase unbalanced output
- **Flexible System Expansion**
Up to 8 units parallel, supports AC coupling for retrofit
- **SiC + Full Aluminum + IP66**
High efficiency, lightweight, IP66 protection

Application scenario



House



Farm



Telecom



Countryside



Island



Pasture

TECHNICAL SPECIFICATION

Model	WSL-HL8K-P3EU-S	WSL-HL10K-P3EU-S	WSL-HL12K-P3EU-S	WSL-HL15K-P3EU-S	WSL-HL18K-P3EU-S	WSL-HL20K-P3EU-S	WSL-HL24K-P3EU-S
INVERTER INPUT/OUTPUT (GRID)							
Rated Power (kW)	8/8	10/10	12/12	15/15	18/18	20/20	24/24
Rated Voltage	380/400 V a.c., 3W+N+PE						
Rated Frequency (Hz)	50/60						
Power Factor Range	0.8 leading~0.8 lagging						
Switch Time (ms)	<20						
Current (Maximum/Continuous)(A a.c.)	24/12	29/15	35/17	43/22	52/26	58/29	60/35
Max Output Overcurrent Protection	400 Va.c./100 A a.c.						
BATTERY							
Battery Type	Lithium/Lead-acid						
Battery Voltage Range (V d.c.)	40~60						
Rated Battery Voltage (V d.c.)	51.2				48		
Max Charge Current (A d.c.)	180	220	250	315	375	390	415
Max Discharge Current (A d.c.)	180	220	250	315	375	390	415
PV INPUT							
No.of MPPT Tracker/Strings	2/2+2						
Max.PV Array Power (kW)	16	20	24	30	36	40	48
Max DC Voltage (V d.c.)	1000						
MPPT Voltage Range (V d.c.)	150~950Vd.c.						
Start-up Voltage (V d.c.)	180						
Max.Input Current (A d.c.)	4*20						
Isc PV (Absolute Maximum)(A d.c.)	4*30						
AC OUTPUT (EPS)							
EPS Rated Output Voltage	380/400 V a.c., 3W+N+PE						
EPS Rated Output Frequency (Hz)	50/60						
EPS Rated Output Active Power (kW)	8	10	12	15	18	20	24
EPS Rated Output Apparent Power (kVA)	8	10	12	15	18	20	24
EPS Rated Output Current (A a.c.)	12	15	17	22	26	29	35
Overload Capacity (Off Grid)	110% 600s/120% 300s/150% 60s/200% 10s						
EFFICIENCY							
MPPT Efficiency	99.90%						
Euro-efficiency	97.00%			97.20%			
Max.Efficiency	97.50%			98.00%			
PROTECTION & FEATURE							
Insulation Monitoring	Yes						
Residual Current Monitoring	Yes						
Parallel Function	Yes						
Protection Degree	IP66						
Certifications	IEC62109-1/2, IEC62477-1, IEC61000-6-1, IEC61000-6-3, EN 50549-1&-10, NRS 097-2-1, IEC61727, IEC61683, IEC 62116						
Other Protection	Output over voltage, Output over current, Short circuit, Surge, Temperature, Anti-Islandmg						
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	0-95% (Non-condensing)						
Altitude (m)	4000 (>2000 Derating)						
Noise (dB)	<65			<75			
Machine Dimension(W*H*D) (mm)	448*660*265						
Machine Weight/N.W. (kg)	45			48			
DISPLAY & COMMUNICATION							
Display	LCD+APP						
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.