

EH75 / 99 / 100 / 124.9 / 125-MU

75-125kW C&I Hybrid Inverter

Multiple access

- Photovoltaic-storage DC coupling, supporting connection of 20 PV strings.
- Supports diesel generator connection to expand power supply options.

Versatile modes

- Supports multiple operating modes including peak shaving and valley filling, self-consumption, battery priority, etc.
- Excellent multi-unit parallel capability.

Reliable power supply

- Seamless on-grid/off-grid switching to ensure reliable power supply for loads.
- Supports 100% unbalanced loading.

Integrated efficiency

- Compact size and high power density.
- Supports linkage with BMS, EMS and protection systems.



Spec.	EH75-MU	EH99-MU	EH100-MU	EH124.9-MU	EH125-MU
Input DC (PV side)					
Recommended max. PV array size	150 kW	198 kW	200 kW	249.8 kW	250 kW
Max. usable PV input power	150 kW	198 kW	200 kW	249.8 kW	250 kW
Max. input voltage	1000 V				
Rated voltage	600 V				
Start-up voltage	180 V				
MPPT voltage range	150 V~950 V				
Max. input current	42 A × 10				
Max. short circuit current	60 A × 10				
MPPT number / Max. input strings number	10 / 20				
Battery					
Battery type	Lithium battery				
Battery voltage range	150~950 V (with DC / DC converter), 650~950 V (without DC / DC converter)				
Max. charge / discharge current	200 A / 100 A × 2				
Number of battery ports	1 / 2				
Max. charge / discharge current of each port	200 A / 100 A				
Communication	CAN / RS485				
Output AC (Back-up)					
Rated output power	75 kW	99 kW	100 kW	124.9 kW	125 kW
Max. apparent output power	75K / 100K: 1.6 times of rated power, 10s;125K: 1.5 times of rated power 10s; (Note: The 99K / 124.9K model has no overload capacity);				
Back-up switch time	< 10 ms				
Rated output voltage	400 V / 415 V, 3P + PE + N				
Rated frequency	50 / 60 Hz				
THDu (@linear load)	< 2%				
Input AC (Grid side)					
Max. input current	216.5 A	270.6 A	270.6 A	270.6 A	270.6 A
Input AC (Generator)					
Rated input voltage	400 V / 415 V, 3P + PE + N				
Rated input frequency	50 / 60 Hz				
Output AC (Grid side)					
Rated output power	75 kW	99 kW	100 kW	124.9 kW	125 kW
Max. apparent output power	82.5 kVA	99 kVA	110 kVA	124.9 kVA	137.5 kVA
Rated grid voltage	400 V / 415 V, 3P + PE + N				
Rated grid frequency	50 / 60 Hz				
Rated grid output current	108.2 / 104.3 A	142.9 / 137.7 A	144.3 / 139.1 A	180.3 / 173.8 A	180.4 / 173.9 A
Power Factor	0.8 lagging ~ 0.8 leading				
THDi	< 2%				
Efficiency					
Max. efficiency	97.8%				
Protection					
Protection	Anti-islanding protection, AC overcurrent protection, AC short circuit protection, AC/battery undervoltage overvoltage protection, leakage current protection, DC reverse connection protection, surge protection, DC arc fault protection(optional), DC insulation detection, over-temperature protection, etc.				
General Data					
Max. power per phase (grid & back-up)	25 kW	33 kW	33.33 kW	41.63 kW	41.66 kW
Dimensions (W × H × D)	1168 × 880 × 360 mm				
Weight	< 170 kg				
Topology	Transformerless				
Operating ambient temperature range	-40° C~60° C (derate above 45° C)				
Relative humidity	0%~100%RH				
Ingress protection	IP66				
Max. operation altitude	4000 m (derate above 2000 m)				
Cooling concept	Intelligent air cooling				
Grid connection standard*	EN 50549-1&2/EN 50549-10, VDE-AR-N 4105, NTS 631, CEI 0-21, C10/11, NRS 097-2-1, TOR, G99, IEC 62116, IEC 61727, MEA, PEA, etc.				
Safety / EMC standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4				
Features					
PV connection	MC4 Quick connection plug				
Battery connection	Terminal connector				
AC connection	OT terminal (M12)				
Display	4.3" LCD display				
Communication	Standard: WIFI + Bluetooth, CAN-BMS × 2, CAN-Parallel × 2, LAN, RS485-Meter, RS485, DRM, DI × 5, DO × 5 Optional: 4G (alternative to WiFi, WiFi is default)				
*The certification standards listed in this column are planned targets. For the specific certification time, please consult and confirm with the local team.					

*The certification standards listed in this column are planned targets. For the specific certification time, please consult and confirm with the local team.