

THREE-PHASE HYBRID INVERTER



Complete certification,
Reliable performance



Multiple circuit protections for overvoltage,
overload and overtemperature.



Wide MPPT voltage range



Convenient installation
and easy maintenance



Low noise operation



Power switching time <20ms

Technical specification

Technical specification	ZL-18H3-EU	ZL-110H3-EU	ZL-112H3-EU	ZL-115H3-EU
Input (PV)				
Max. power(kW)	12	15	18	22.5
Max. DC voltage (V)	1000			
MPPT voltage range(V)	180~850			
Max.Input current of single MPPT(A)	13			
MPPT tracker/strings	1/2			
AC output				
Rated output power(kVA)	8	10	10	15
Max. output current(A)	12.7	15.9	15.9	23.8
Grid voltage/range(V)	380/400,3W+N+PE			
Frequency (Hz)	50 /60			
PF	0.8lagging-0.8leading			
THDi	<3%			
AC output topology	3W+N+PE			
Battery				
Battery voltage range(V)	125~600			
Max. charging voltage(V)	600			
Full battery voltage(V)	250	300	350	400
Rated charge/discharge current(A)	40	40	50	50
Battery type	lithium /Lead-acid			
Communication Interface	CAN/RS485			
EPS output				
Rated power(kVA)	8	10	12	15
Rated output voltage(V)	400			
Max. output current(A)	12.7	15.9	19.1	23.8
Rated frequency(Hz)	50 /60			
Automatic switching time(ms)	<20			
THDu	<2%			
Overload capacity	110%, 30S/120%, 10S/150%, 0.02S			
General data				
Battery charge /discharge efficiency	96.60%	96.70%	96.80%	97.80%
DC Max. efficiency	97.90%	98.20%	98.20%	97.60%
Europe efficienc	97.20%	97.50%	97.50%	97.80%
MPPT efficiency	99.50%	99.50%	99.50%	99.90%
Ingress protection	IP65			
Noise emission(dB)	<25			
Operation temperature	- 25°C~60°C			
Cooling	Natural			
Relative Humidity	0 ~95%(non-condensing)			
Altitude	2,000m (>2,000 Derating)			
Dimensions W*D*H (mm)	530*220*560			
Weight(kg)	30	31	33	34
Isolation transformer	No			
Self-consumption(W)	<3			
Display and communication				
Display	LCD			
Interface:RS485/Wifi/4G/	Yes/ Opt/ Opt/ Yes/ Yes			
Safety standard	IEC/EN62109-1/-2, IEC/EN62477-1			
EMC	IEC/EN 61000-6-1, IEC/EN 61000-6-3			
On-grid	EN5054-1, CEI-21, G98, G99, VDE4105			