

LONGi

LONGi eHome **U5**

8kW | Single Phase | 1/2 MPPTs
Hybrid Inverter (LV)



5

5-year from
the date of product installation & commissioning

8kW | Single Phase | 1/2 MPPTs

LONGi eHome U5 Series inverter, available in 8kW capacities, are specifically designed for residential PV installations. It offers flexible compatibility with both on-grid and off-grid systems and support parallel connection of up to 6 inverters for easy system expansion. The U5 series inverters feature a user-friendly touch-screen LCD display for intuitive operation and monitoring, and can be combined with a range of battery capacities and brands.



Flexible & Adaptable Applications

- 3-in-1 Port: generator & smart loads & on-grid inverter
- Micro-grid operation with PV inverter
- Supports on- and off-grid parallel operation of up to 6 units



Higher Power Generation

- Max. 20A DC input current per string
- 200% PV input oversizing



Superb Safety & Reliability

- AI-driven AFCI
- IP66 ingress protection



Smart Control & Monitoring

- Smart load control
- Seamless switching to backup <4ms

Hybrid Inverter

Model

LGie - HL5 - 1P08K66 - G

PV Input Data

Max. Input Power (kW)	16
Max. Input Voltage (V)	600
Nominal Input Voltage (V)	360
Max. Input Current per MPPT (A)	32
Max. Short Circuit Current per MPPT (A)	48
MPPT Operating Voltage Range (V)	60 ~ 550
Start-up Voltage	58
Number of MPPT Trackers	2

AC Output Data(On-grid)

Nominal Output Power (kW)	8
Nominal Output Voltage (V)	230Vac
Nominal AC Grid Frequency (Hz)	50/60
Nominal Output Current (A)	34.7
Max. AC Current(A)	40
Max. Total Harmonic Distortion	<3%

AC Output Data (Back-up)

Back-up Nominal Apparent Power (kVA)	8
Nominal Output Voltage (V)	230
Wiring System	L/N/PE
Nominal AC Grid Frequency (Hz)	50/60
Nominal Output Current (A)	34.7
Max. AC Current(A)	40
Power Factor	0.8 leading to 0.8 lagging
Max. Total Harmonic Distortion	<3%

Efficiency

MPPT Efficiency	99.9%
Max. Efficiency	97.6%

Battery Input Data

Battery Voltage Range (V)	40-60
Max. Charging/Discharging Power (kW)	8.0/8.0
Max. Continuous Charging/Discharging Current (A)	160/160

General Data

String Current Monitoring	Integrated
Insulation Resistance Detection	Integrated
Residual Current Monitoring	Integrated
Reverse Polarity Protection	Integrated
Anti-islanding Protection	Integrated
AC Overcurrent Protection	Integrated
AC Short Circuit Protection	Integrated
AC Overvoltage Protection	Integrated
DC Switch	Integrated
Remote Shutdown	Integrated
Certification	IEC 61000-6, IEC 62109 IEC 61683, IEC 61727 IEC 62116
Ingress Protection Rating	IP66
Operating Temperature Range	-35°C+60°C
Max. Operating Altitude (m)	3000
Dimensions (W*H*D) (mm)	560 × 444.5 × 226
Weight (kg)	27
Cooling Method	Smart Fan Cooling
Communication	WiFi, RS485, Ethernet
Mounting Method	Wall Mounted
Diesel Generator Integration	Supported