

**1KOM
MA5°**

1KOMMA5° SINGLE-PHASE HYBRID INVERTER

- **#newenergy**
 - × Developed for Heartbeat AI
 - × Can be combined with the 1KOMMA5° battery
- **Powerful**
 - × 1-phase hybrid inverter
 - × 2 MPPTs
 - × Low starting voltage
 - × Backup

1K5° single-phase
Hybrid Inverter 5 kW



SINGLE-PHASE HYBRID INVERTER

MODEL

1K5-1P-HI-5

INPUT PV (ONLY FOR HYBRID)

Max. DC Input Power [W]	7,500	A:3750 B:3750
Max. Input Voltage [V]	600	
Start-up Input Voltage [V]	75	
Rated Input Voltage [V]	360	
MPPT Operating Voltage Range [V]	80 ~ 550	
Max. Input Current [A]	16 / 16	
Max. Short-circuit Current [A]	20 / 20	
No. of Independent MPP Trackers	2	
No. of Strings per MPP Tracker	1	

BATTERY CONNECTION

Battery Type	Lithium-Ion battery (LFP)
Battery Voltage [V]	80 ~ 480
Max. Charge/Discharge Current [A]	40
Communication Interface	CAN (communicate with inverter, upgrade BMS)

AC INPUT AND OUTPUT (GRID)

Max. AC Input Power [VA]	10,000
Max. AC Input Current (per phase)[A]	45.5
Rated Output Power [W]	5,000
Max. Output Apparent Power [VA]	5,500
Rated Output Current (per phase)[A]	22.7
Rated Output Current (per phase)[A](For AUS)	21.7
Max. Output Current [A]	25.0
Rated Grid Voltage [V]	220/230/240
Rated Grid Frequency [Hz]	50/60
Power Factor	1 (Adjustable from 0.8 leading to 0.8 lagging)
THDi [%]	<3 @rated power

EPS OUTPUT (WITH BATTERY)

Max. Output Apparent Power [VA]	5,000
Peak Output Apparent Power (60s)[VA]	6,000
Max. Current (per phase)[A]	22.7
Rated Output Voltage [V]	220/230/240
Rated Output Frequency [Hz]	50/60
Power Factor	1 (Adjustable from 0.8 leading to 0.8 lagging)
THDv (linear Load)[%]	<2 @rated power
Parallel operation [PCS]	10
Switch time [ms]	<20

EFFICIENCY

Euro Efficiency [%]	96.30
Max. Efficiency [%]	97.08
Max. Battery Charge Efficiency(PV to BAT)(@full load)[%]	98.50
Max. Battery Discharge Efficiency(BAT to AC)(@full load)[%]	97.00

PROTECTION

Insulation Monitoring	Yes
Residual Current Monitoring	Yes
DC Reverse Polarity Protection	Yes
Anti-islanding Protection	Yes
AC Short-circuit Protection	Yes
AC Overcurrent/Overvoltage Protection	Yes
DC Switch	Yes
Battery Wack-up Function	Yes
SPD	DC: Type II, /AC: Type III
AFCI	Yes

GENERAL DATA

Dimensions (W×H×D)[mm]	434×418×185
Weight [kg]	22
Installation	Wall-Mounted
Topology	Non-isolated
Cooling Method	Natural
Noise Emission [dB]	35
Max. Operating Altitude [m]	2,000
Operating Temperature Range [°C]	-25 ~ 60
Humidity (No Condensation)[%]	0 ~ 100
Ingress protection	IP65
Standby consumption [W]	<15
Monitoring Module	WiFi, LAN (Optional), 4G (Optional)
Communication	RS485, DRM, Ripple Control, USB, CAN
Display	LCD, App, Website

STANDARD COMPLIANCE (MORE AVAILABLE UPON REQUEST)

Safety	EN 62109-1, EN 62109-2
Grid Regulation	AS / NZS 4777.2
Warranty ⁸ [year]	10