



HM10-15KT Series

On-Grid PV Inverter



Overview

The HM10-15KT series three-phase on-grid PV inverter adopts advanced MPPT control algorithms, maximizing the conversion of DC power from the PV array into AC power. The energy can be fed into the grid or utilized for self-consumption via CT detection, meeting diverse grid requirements across different regions. It is an ideal solution for residential applications.

Features

⚡ High Efficiency

- High yield 110% rating power
- 150% PV oversizing
- 2 MPPTs
- Max. PV input voltage: 1,100VDC
- Input current per string: 20A

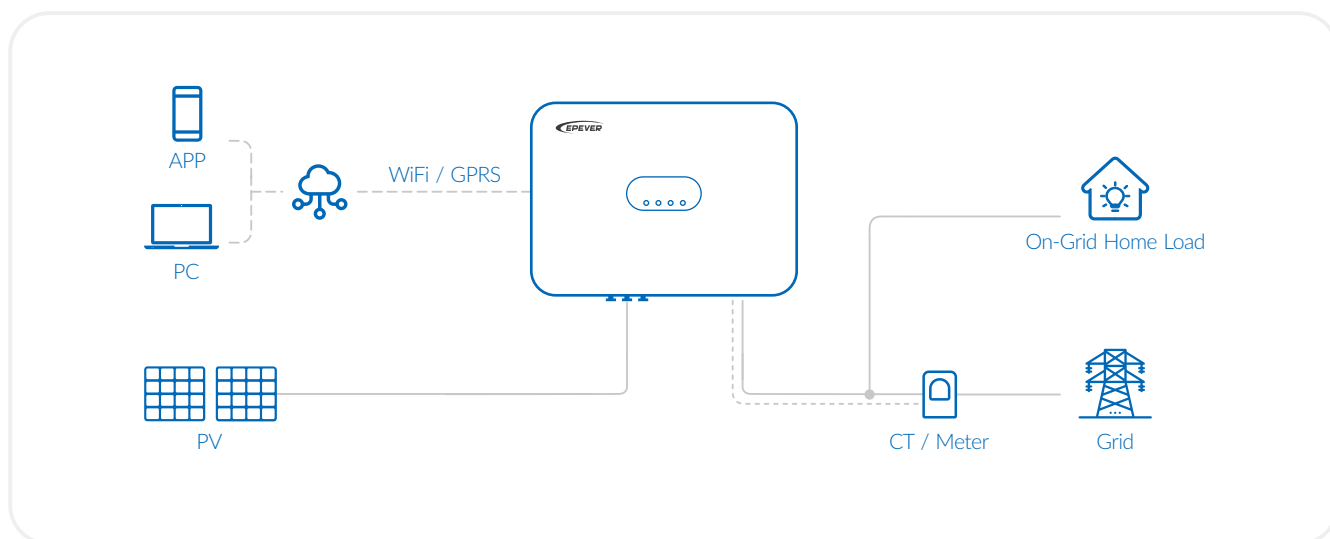
🛡️ Reliable & Safe

- Maintenance-free; Ultra-quiet
- IP65 protection
- Built-in DC Type II /AC Type III SPD
- Optional AFCI function

👍 User-Friendly & Intelligent Monitoring

- App-based setup and monitoring
- Optional LCD display
- Standard USB communication port
- WiFi / GPRS (optional)

On-Grid Solution



Technical Specifications

Model	HM10KTL	HM12KT	HM15KT
PV Input (DC)			
Max. input power	15,000W	18,000W	22,500W
Max. input voltage	1,100V		
Start-up voltage	250V		
Rated input voltage	620V		
Max. input current	20A/20A		20A/40A
Max. short-circuit current	25A		25A/50A
MPPT voltage range	180-1,000V		
Number of MPPTs	2		
Number of strings	1/1		1/2
AC Output			
Rated output power	10,000W	12,000W	15,000W
Max. output apparent power	11,000VA	13,200VA	16,500VA
Rated output current	14.5A	17.4A	21.7A
Max. output current	16A	20A	25A
Rated grid voltage	230V/400V		
Rated grid frequency	50Hz/60Hz		
THDi	< 3%		
Power factor	≈1 (Adjustable from 0.8 leading to 0.8 lagging)		
Efficiency			
Max. Efficiency	98.20%		
European Efficiency	98.00%		
Protection			
Basic protection	• PV reverse polarity • PV insulation resistance • PV string current monitoring	• AC output overvoltage • AC output overcurrent • AC output short circuit	• Anti-islanding • Grid monitoring • Residual Current (RCD) Detection
AFCI	Optional		
DC switch	Intergrated		
SPD	DC Type II/AC Type III		
Environmental Parameters			
Operating temperature	-30°C to 60°C		
Relative humidity	0-100%		
Altitude	4,000m		
Ingress protection	IP65		
Mechanical Parameters			
Dimensions (L×W×H) (mm)	490×357×195		
Weight (kg)	17		
Others			
Self-consumption (Night)	< 1W		
Topology	Transformer-less		
Cooling method	Natural		
Display	LED/WIFI+APP		
PV input connector	H4/MC4 (Optional)		
AC output connector	Plug-in connector		
Certifications	IEC/EN 62109; IEC/EN 61000; EN 50549		