

On-grid Inverter

3-17kW

Gi003K-017K

Three-phase On-grid Inverter



LückEner



May Luck Ener Be With You

* Product appearance may vary



High-efficiency



Wide Compatibility



Safe & Stable

- **150%** DC/AC ratio for maximum solar power utilization
- Up to **2 MPPTs** design with **98.5%** efficiency, ensuring maximum energy utilization
- **140V** startup voltage and **120-1000V MPPT range**, enabling longer daily power generation time
- 110% continuous overload output to achieve higher power generation capability
- Advanced grid adaptability ensures reliable operation under weak-grid conditions

- **Export power control** for precise grid-feed to meet local regulations
- Optional AFI function, reducing fire risks and improving long-term system reliability
- Integrated **Type II SPD** on both DC and AC sides for comprehensive surge protection
- **IP66** protection rating, ensuring dependable operation in harsh environmental conditions

Models	Gi003K -A1.11-P3NV-L	Gi004K -A1.11-P3NV-L	Gi005K -A1.11-P3NV-L	Gi006K -A1.11-P3NV-L	Gi007K -A1.11-P3NV-L	Gi008K -A1.22-P3NV-L	Gi009K -A1.22-P3NV-L	Gi010K -A1.22-P3NV-L	Gi012K -A1.22-P3NV-L	Gi015K -A1.22-P3NV-L	Gi017K -A1.22-P3NV-L
PV input data											
Recommend max. PV capacity (Wp)	4500	6000	7500	9000	10500	12000	13500	15000	18000	22500	25500
Max. PV input voltage (V)						1100					
Rated voltage (V)						600					
Start voltage (V)						160					
MPPT voltage range (V)						120~1000					
Max. PV input current (A)				20				20/20			
Max. short-circuit current per MPPT (A)				30				30/30			
MPPT number				1				2			
No. of PV strings per MPPT				1				1			
AC output Data											
Rated output power (W)	3000	4000	5000	6000	7000	8000	9000	10000	12000	15000	17000
Max output power (VA)	3300	4400	5500	6600	7700	8800	9900	11000	13200	16500	18700
Max output current (A)	5.0	6.7	8.3	10	11.7	13.3	15.0	16.7	20.0	25.0	28.3
Operation phase	3L+N+PE										
Rated output voltage (V)	220/380; 230/400										
Rated frequency (Hz)	50/60										
THDi	<3%										
Power factor	1(0.8leading~0.8lagging)										
Efficiency											
Max. efficiency	98.50%										
EU efficiency	98.20%										
Protection											
DC switch	Yes										
DC reverse-polarity connection protection	Yes										
Thermal protection	Yes										
AC overvoltage/current protection	Yes										
AC short circuit protection	Yes										
Ground fault circuit interrupter	Yes										
Power network monitoring	Yes										
Island protection	Yes										
Ground fault monitoring	Yes										
Insulation resistance monitoring	Yes										
Residual current detection	Yes										
Arc fault circuit interrupter	Optional										
Surge protection	AC Typell/DC Typell										
General											
Dimensions (W*H*D mm)	459*459*153.5										
Weight (kg)	14										
Noise (dB)	<45										
Operating temperature (°C)	-25~60(>45°Cderating)										
Type of cooling	Smart air cooling										
Topology	Transformless										
Communication	RS485										
Permissible altitude (m)	3000(>2000m derating)										
Permissible ambient humidity	0~100%										
Ingress protection (IP) grade	IP66										
Warranty	5/10 years; (More info refers to the warranty policy)										
Display	LCD+LED										
Grid regulation	IEC61727,IEC62116(Additional certifications in progress. See website for updates.)										
Safety EMC/Standard	IEC EN 61000-6-3; IEC62920; IEC62109-1/2										