

# Single Phase On-Grid Solar Inverter

## 单相并网太阳能逆变器

### MG1KTL~MG5KTL(2M)



- Wide voltage range, lower starting voltage, higher conversion efficiency
- Software optimization for the power grid with much wider adaptability
- Transformerless, smaller and lighter
- LCD display and easy operate keyboard with multiple functions.
- Ip65 protection for indoor and outdoor installation
- 超宽电压范围，极低的启动电压和更高的转换效率
- 针对电网实际运行特性，深入进行软件优化，电网适应性更强
- 无变压器设计，更小体积，更轻量化
- LCD显示，按键操作，功能更强大，操作更方便
- Ip65防护等级，适应户内外安装

#### Technical Specifications 技术参数

Model	MG1KTL	MG1K5TL	MG2KTL	MG3KTL(2M)	MG4KTL(2M)	MG5KTL(2M)
Phase	1-phase in / 1-phase out					
Installation Type	Wall Mounting Type					
Size, D X W X H (mm)	280x300x138			280x300x138 460x360x150(2M)	405x360x150/460x360x150(2M)	
Net Weight (Kgs)	9.50			9.50/17.00(2M)		15.00/17.00(2M)
<b>Input(DC)</b>						
Max. DC Power (W)	1200	1700	2200	3200	4500	5000/5500
Max. DC Voltage(V)	450			600		
Nominal DC Voltage(V)	360					
MPPT Voltage Range (V)	80-400	100-410	120-410	120-550		
Start-up/Min. Operation Voltage (V)	80/60	100/80	120/100	120/100		
No. of MPP Trackers/String per MPPT	1/1			1/2、2/1(2M)		
Max. DC Current per MPPT x No. of MPPT	10Ax1	10Ax1	13Ax1	15Ax1、10Ax2(2M)	18Ax1、10Ax2(2M)	20Ax1、12Ax2(2M)
<b>Output(AC)</b>						
AC Nominal Power(W)	1000	1500	2000	3000	4000	5000
Nominal AC Voltage(V)	220,230,240					
AC Voltage Range(V)	180~277					
AC Grid Frequency Range(Hz)	50Hz(44~55Hz)/60Hz(54~65Hz)					
Max. AC Output Current(A)	4.5	6.5	9	13	19	21
Power Factor @ Rated Power	>=0.99					
THDi @ Rated Power	<3%					
<b>Efficiency</b>						
Maximum Efficiency	96.9%	97.2%	97.2%	97.3%/97.9%	97.7%/97.9%	97.8%/98.0%
Euro Efficiency	96.0%	96.1%	96.1%	96.5%/96.8%	96.5%/96.8%	96.8%/96.8%
MPPT efficiency	99%					
Protection	DC isolation monitoring, DC monitoring, DC over current protection, Grounding fault monitoring, island protection, overheating protection, electronic protection, Overvoltage and short circuit protection etc.					
<b>Interface</b>						
Datalogger & Communication	RS485 (standard); WiFi, Ethernet (optional)					
<b>General Data</b>						
Cooling Method	Natural Cooling					
Topology	Transformerless					
Display	LED (standard) / LCD(optional)					
LCD Language	English, Chinese, German, Dutch					
<b>Environment</b>						
Humidity	0~95%, no condensation					
Operating Temperature	-25°C~+60°C (derate after 45°C)					
Noise (dB)	<25					
Altitude	Up to 2000m (without derating)					
Protection Grade	Ip65					
<b>Standard</b>						
Standard Warranty [Year]	5 (Standard)/10/15/20/25 (Optional)					
Certificate	VDE-AR-N 4105:2011, G83-2, TF3.2.1, AS4777/3100, CQC, EN61000-6-1:4, EN61000-3-2:3, EN61000-11:12, IEC62109-1:2010, LVRT					

\* Remarks: Products specifications are subject to change without notice.