



# MG 3kW-PLUS

## Single Phase Grid-tied Solar Inverter



Zero export  
function  
(Optional)



Aluminum  
radiator



IP65



Product  
Liability  
Insurance



High power  
density



5+5 years  
warranty



MG3KTL - PLUS	
<b>DC input parameter</b>	
Max. DC input power	3.6kW
Max. DC input voltage	500V
Starting voltage / Lowest voltage	120V / 100V
MPPT voltage range	120V – 450V
Number of MPPT / String per MPPT	1 / 1
Max. DC current x number of MPPT	15A x 1
<b>AC output parameter</b>	
Rated output current	13.1A
Rated output power	3kW
Rated output voltage	230V
Output voltage range	230V / 180V ~ 277V
Frequency range of power grid	50Hz (47Hz ~ 51.5Hz) / 60Hz (57Hz ~ 61.5Hz)
Power factor	-0.9 ~ +0.9 (Adjustable)
Harmonic distortion	< 3%
<b>Efficiency</b>	
Maximum efficiency	97.60%
European efficiency	96.50%
<b>Protection</b>	
Protection	Input overvoltage protection, input overcurrent protection, DC isolation monitoring, DC monitoring, grounding fault current monitoring, grid monitoring, island protection, short circuit protection, overheating protection etc.
<b>Display and Communication</b>	
Display	LED / LCD (Backlit display)
LCD language	English, Chinese, German, Dutch
Interface	RS485 (standard), Ethernet, Handheld keypad, WiFi (optional)
<b>Standard</b>	
Grid qualification	DIN VDE 0126-1-1:2013, VDE-AR-N 4105:2011, DIN VDE V 0124-100:2002, G83-2:2012, G59/3-2:2015, IEC 61727 (IEC62116), AS/NZS 4777.2:2015, NB/T32004-2013, IEC60068-2-1:2007, IEC 60068-2-2:2007, IEC 60068-2-14:2009, IEC 60068-2-30:2005, IEC 61683:1999
Safety / EMC	IEC 62109-1:2010, IEC 62109-2:2011, EN 61000-6-2:2005, EN 61000-6-3:2007/A1:2011
<b>General parameter</b>	
Cooling method	Natural cooling
Protection degree	IP65
Power consumption at night	< 1W
Topology	Non-isolated
Operation temperature	-25°C ~ +60°C (Derating above 45°C)
Relative humidity	0 ~ 95%
Noise	≤ 25dB
Altitude	2000m (Derating above 2000m)
Dimension (W x H x D)	270 x 315 x 128 mm
Weight	6.8kg
Warranty	5 years (Standard) / 10 years(Optional)



Sales E-mail: solar@invt.com.cn Service E-mail: solar-service@invt.com.cn Website: www.invt-solar.com