



**Product**

**Name : Sungold 1.5-5k**

**Description :**

- Maximum efficiency of 97.8% and wide input voltage range
- Transformerless GT topology
- Compact design
- MTL - String







## Parameters

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Model Specifications	Sungold 1000	Sungold 1500	Sungold 2000	Sungold 3000	Sungold 4600	Sungold 5000
<b>Input data (DC)</b>						
Max. DC power	1300W	1800W	2300W	3200W	4800W	5200W
Max. DC voltage	450V	450V	500V	500V	580V	580V
Start voltage	90V	150V	150V	150V	150V	150V
PV voltage range	70V-450V	100V-450V	100V-500V	100V-500V	100V-580V	100V-580V
MPP work voltage range/nominal voltage	70V-450V/180V	120V-450V/360V	120V-500V/360V	120V-500V/360V	120V-580V/360V	120V-580V/360V
Full load dc voltage range	110V-400V	175V-450V	195V-450V	250V-450V	250V-500V	250V-500V
Max. input current	10A	10A	12A	15A	20A	21A
Max. input current per string	10A	10A	12A	15A	20A	21A
Number of independent MPP trackers/strings per MPP tracker	1/1	1/1	1/2	1/2	1/3	1/3
<b>Output (AC)</b>						
Rated AC output power	1000W	1650W	2000W	2850W	4600W	5000W

Max. AC power	1100W	1650W	2200W	3000W	4600W	5000W
Max. output current	5.5A	8A	11A	15A	23A	25A
AC nominal voltage; range	230V; 207Vac~263Vac	230V; 207Vac~263Vac	230V; 207Vac~263Vac	230V; 207Vac~263Vac	230V; 207Vac~263Vac	230V; 207Vac~263Vac
AC grid frequency; range	50,60H;±5 Hz	50,60H;±5 Hz	50,60H;±5 Hz	50,60H;±5 Hz	50,60H;±5 Hz	50,60H;±5 Hz
Power factor	1	1	1	1	1	1
THDI	<3%	<3%	<3%	<3%	<3%	<3%
AC connection	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
<b>Efficiency</b>						
Max. efficiency	97%	97%	97%	97%	97.8%	97.8%
Euro weighted efficiency	95.5%	96.5%	96.5%	96.5%	97.4%	97.4%
MPPT efficiency	99.5%	99.5%	99.5%	99.5%	99.5%	99.5%
<b>Protection devices</b>						
DC reverse polarity protection	yes	yes	yes	yes	yes	yes
Output over current protection	yes	yes	yes	yes	yes	yes
Output over voltage protection - varistor	yes	yes	yes	yes	yes	yes
Ground fault monitoring	yes	yes	yes	yes	yes	yes
Grid monitoring	yes	yes	yes	yes	yes	yes
Integrated all - pole sensitive leakage current monitoring unit	yes	yes	yes	yes	yes	yes
<b>General Data</b>						
Dimensions (W / H / D) in mm	360/329/132	360/329/132	360/329/132	360/329/132	406/406/192	406/406/192
Weight	10.5KG	11.5KG	11.7KG	12.2KG	21KG	21KG
Operating temperature range	-25°C ... +60°C (-13...+140°F) with derating above 50°C /122°F	-25°C ... +60°C (-13...+140°F) with derating above 50°C /122°F	-25°C ... +60°C (-13...+140°F) with derating above 50°C /122°F	-25°C ... +60°C (-13...+140°F) with derating above 50°C /122°F	-25°C ... +60°C (-13...+140°F) with derating above 50°C /122°F	-25°C ... +60°C (-13...+140°F) with derating above 50°C /122°F
Noise emission (typical)	≤ 25 dB(A)	≤ 25 dB(A)	≤ 25 dB(A)	≤ 25 dB(A)	≤ 25 dB(A)	≤ 25 dB(A)
Altitude	2000m(6560ft) without derating					
Self-Consumption night	< 0.5 W	< 0.5 W	< 0.5 W	< 0.5 W	< 0.5 W	< 0.5 W
Topology	transformerless	transformerless	transformerless	transformerless	transformerless	transformerless
Cooling concept	Natural	Natural	Natural	Natural	Natural	Natural
Environmental Protection Rating	IP65	IP65	IP65	IP65	IP65	IP65
Relative humidity	95%	95%	95%	95%	95%	95%
<b>Features</b>						
DC connection	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)	H4/MC4(opt)
AC connection	Screw terminal	Screw terminal	Screw terminal	Screw terminal	Screw terminal	Screw terminal
Display	LCD	LCD	LCD	LCD	LCD	LCD
Interfaces:RS485/RS232/ Bluetooth /RF/Zigbee/Wifi	yes/yes/opt/opt/ opt/opt	yes/yes/opt/opt/ opt/opt	yes/yes/opt/opt/ opt/opt	yes/yes/opt/opt/ opt/opt	yes/yes/opt/opt/ opt/opt	yes/yes/opt/opt/ opt/opt
Warranty: 5 years / 10 years	yes /opt	yes /opt	yes /opt	yes /opt	yes /opt	yes /opt
Certificates and approvals	AS4777、AS/NZS 3100					

