

String Inverters without Transformer

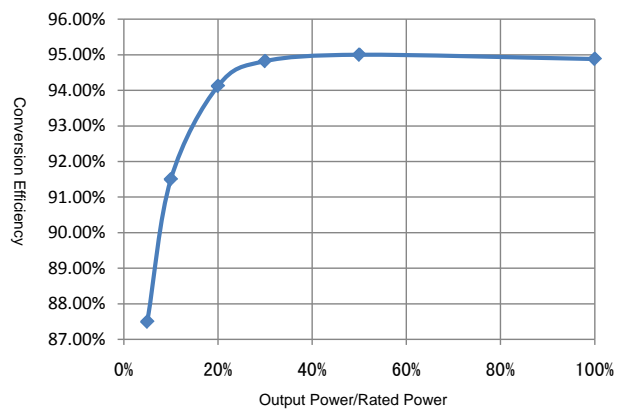


SG IK5TL-3I

Features:

- Easy-setting multilingual LCD display panel
- High reliability with full protective functions
- Compact design with high quality aluminium housing
- Water-proof direct plug-in terminals
- IP65 weather proof protection against harsh condition
- Integrated DC switch enhances system reliability
- powerful LCD human-machine interface
- Natural cooling without fan
- AS 4777 ,G83/1,CE certification

Efficiency Curve: (at $V_{dc}=350V$)



Technical Specifications:

SG 1K5TL-31	
DC SIDE DATA	
Max. DC Voltage	450Vdc
Start Voltage	170V
MPP Voltage	150~380V
Min. DC Voltage	150V
Max. DC Power	1800W
Max. Input Current	10A
Recommend PV Array Open Circuit Voltage	320V
Number of MPP Trackers/Strings Per MPP Tracker	1/1
AC SIDE DATA	
Rated Output Power	1500W
Max. AC Output Current	8A
Rated Grid Voltage	230Vac
Grid Voltage Range	180~260Vac
Rated Grid Frequency	50Hz/60Hz
Grid Frequency Range	47~51.5Hz/57~61.5Hz
Output Current THD	<3% (at nominal power)
DC Current Injection	<0.5% of rated inverter output current
Power factor (cos ϕ)	0.9 (lagging) ~0.9 (leading)
SYSTEM	
Max. Efficiency	95%
Euro. Efficiency	94%
Protection Degree	IP65
Power Consumption at Night	0W
Operating Temperature	-25~+60°C
Cooling Method	natural cooling
Relative Humidity	0~95%, non-condensing
Max. Working Altitude	2000m
DISPLAY AND COMMUNICATIONS	
Display	LCD
Standard Comm. Interfaces	RS485
Optional Comm. Interfaces	Ethernet
MECHANICAL DATA	
Dimensions (WxHxD)	318x425x138mm
Net Weight	14kg

Circuit Diagram:

