



MEGACosmic

SGI-100KT with Transformer

Features

- High speed digital DSP + CPLD control technology
- Advanced IGBT modules, high reliability
- Maximum power point tracking (MPPT) efficiency >99.9%
- Pure sine wave output, automatic synchronization grid, harmony wave is little
- Easy-setting multilingual LCD display panel
- High reliability with full functions of protection & alarm
- RS485 / Ethernet communication, long-distance data collection & monitor
- Low voltage ride through
- Power plant, Substation, Telecommunication room
- Max. Input voltage: 1000v
- Government demonstration project



Technical features	MEGACosmic -SGI-100KT
Input Ratings	
Max. DC input power	112 kWp
Vmax. PV	1000 Vdc
Max. input current	249 A
MPPT Voltage Range (Rate Power)	450 ~ 820 Vdc
Start PV Voltage	420 Vdc
Output Ratings	
Rated Output Grid Voltage (Vac)	400 Vac
Rated Output AC power (kW)	100 kW
Rated Output Frequency (Hz)	50 Hz/60HZ
Max Output Current (A)	158 A
Operating Frequency Range	47 ~ 52 Hz/57 ~62 Hz (Adjustable)
THD (Rated Power)	<2%
Power Factor	< 0.99
Isolation Type	Transformer
Efficiency	
Maximum efficiency	97.3%
European efficiency	96.7%
System & Mechanical Features	
Operating Temperature Range	-25 ~ +55 °C
Max Altitude	3000 m (up 2000m derating)
Enclosure Protection	IP20 (Indoor)
Communication / Option	RS485 / Ethernet
Display	Touch Screen
Cooling Mode	Air cooled
Dimensions (W x H x D)	1000 x 2100 x 800 mm
Weight	900 kg
Standard Warranty	2 years