

■ Features

- True sine wave current output(THD<3%)
- Graphic LCD display
- High efficiency up to 96%
- IP65 design for indoor or outdoor installations
- Anti-Islanding protection
- Transformerless design
- Multi-string input and MPPT
- With internal ground fault detector
- RS485 communication interface
- Monitoring software
- Optional DC disconnect switch
- 5 years warranty



IP65

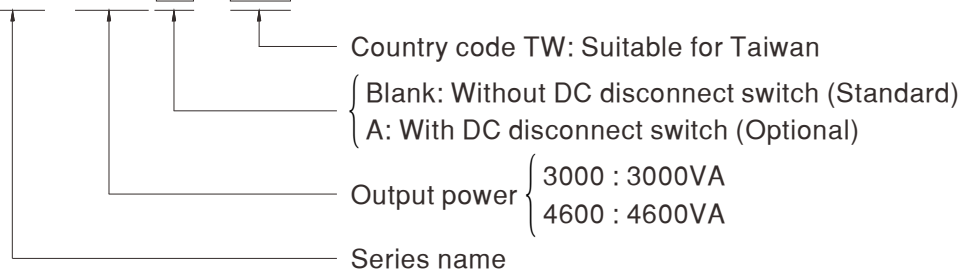


■ Description

GSI-3000 and GSI-4600 series are single-phase grid-tied solar inverters. Featuring the transformerless design, these series can convert, with a high efficiency up to 96%, the DC power harvested from the PV modules to high-quality AC power, which could be synchronized and fed into the utility. The built-in Maximum Power Point Tracker (MPPT) functions allow the maximum possible power to be acquired from one or multiple solar panel arrays in different directions. In addition to providing the maximum power harvest rate, with various kinds of protection and monitoring functions, GSI-3000 and GSI-4600 series guarantee the best operation of solar systems.

■ Model Encoding

GSI - 3000 A - TW

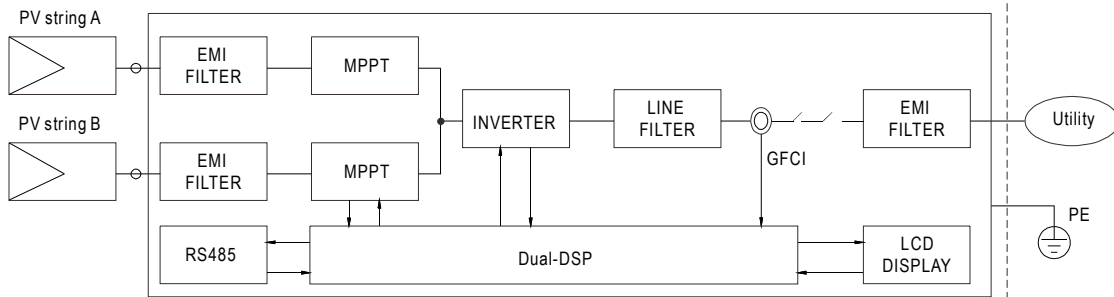




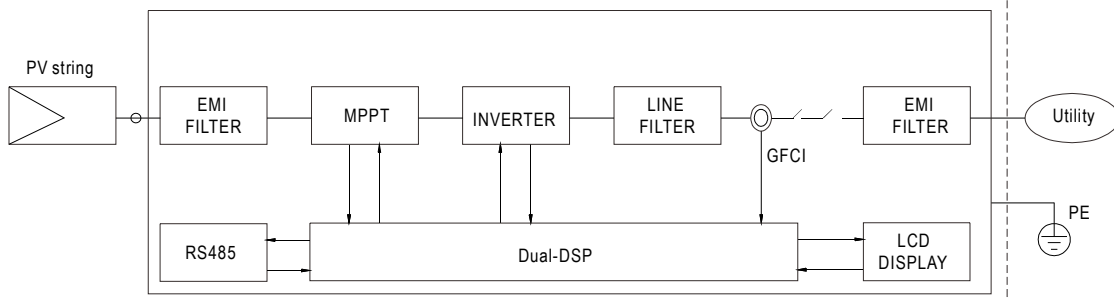
SPECIFICATION

	GSI-3000	GSI-4600
DC Input		
Max. Input Power	3160W	4850W
Input Voltage Range	100 ~ 550VDC	100 ~ 550VDC
MPPT Range	125 ~ 500VDC	125 ~ 500VDC
Number of MPPT Tracker	1	2
Max. Input Current	1*16A	2*10A
AC Output		
Rated Output Power (Typ.) (@230V, 50Hz)	3000VA	4600VA
Max. Output Power (Typ.)	3000VA	4600VA
AC Voltage Range	180 ~ 264VAC	180 ~ 264VAC
AC Grid Frequency	50 ± 5Hz / 60 ± 5Hz	50 ± 5Hz / 60 ± 5Hz
Max. Output Current (Typ.)	13.1A	20A
Power Factor at rated power	>0.99	>0.99
Adjustable Displacement Power Factor	0.9 overexcited ~ 0.9 underexcited	0.9 overexcited ~ 0.9 underexcited
THD(at rated power) (Typ.)	<3%	<3%
DC Current Injection (Typ.)	<0.5% of rated output current	<0.5% of rated output current
AC Connection	Single Phase	Single Phase
Efficiency		
Max. Efficiency (Typ.)	>96%	>96%
Euro Efficiency (Typ.)	>95%	>95%
Protection		
DC Reverse Polarity	Yes	Yes
Over Temperature	Yes	Yes
AC Short	Yes	Yes
Residual-Current Monitoring Unit	Yes	Yes
Over Voltage Category Main	III	III
Over voltage Category PV	II	II
Standards Compliance		
Grid Certificate	VDE-AR-N 4105, CGC NB/T 32004, IEEE 1547	
LVD	TUV EN62109-1,-2, CGC NB/T 32004	
EMI Conduction & Radiation	EN61000-6-3, EN61000-3-2,-3, CGC NB/T 32004	EN61000-6-3, EN61000-3-11,-12, CGC NB/T 32004
EMS Immunity	EN61000-6-2 (include EN61000-4-2,3,4,5,6,8,11), EN61000-4-12,-14,-18	
Environment		
Working Temperature	-25 ~ +60°C	-25 ~ +60°C
Working Humidity	4 ~ 100% RH non-condensing	4 ~ 100% RH non-condensing
Maximum Altitude Rating	2000m	2000m
Pollution Degress	III	III
Storage Temperature / Humidity	-30 ~ +70°C	-30 ~ +70°C
Vibration	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes	
Protection Degree	IP65	IP65
General Data		
DC Disconnect Switch	Optional	Optional
Cooling	Convection	Forced Air
Interface	RS485	RS485
Topology	Transformerless	Transformerless
Display	LED / Graphic LCD	LED / Graphic LCD
Dimension(L*W*H)	438*390*158mm (L*W*H)	438*390*158mm (L*W*H)
Weight	20Kg; 1pcs/21Kg/2.16CUFT	20Kg; 1pcs/21Kg/2.16CUFT

Block Diagram-Grid Type (4600VA)

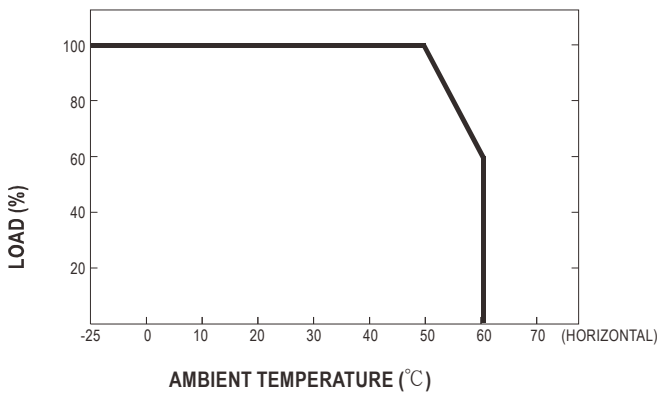


Block Diagram-Grid Type (3000VA)



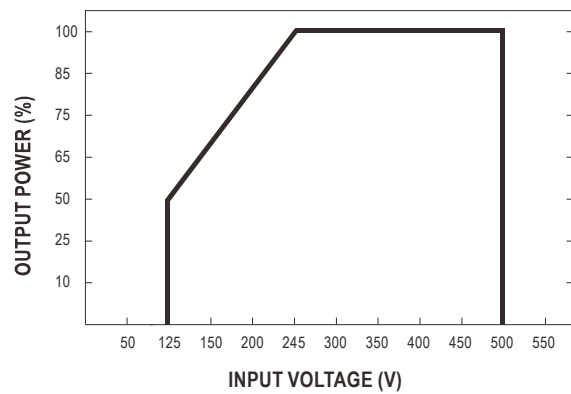
Derating Curve

GSI-4600



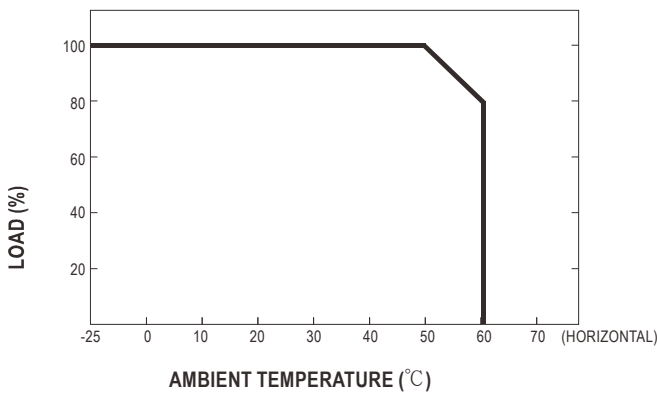
Curve 1

Static Characteristics

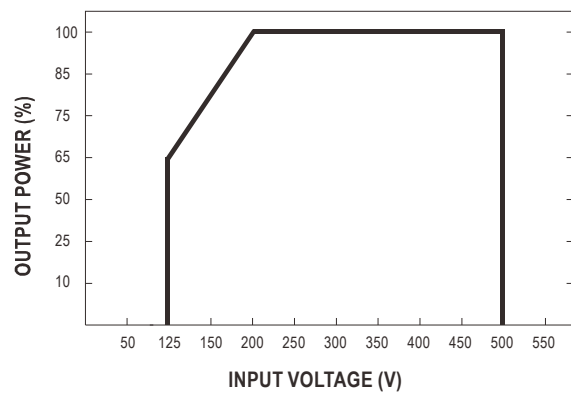


Curve 2

GSI-3000

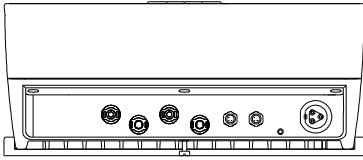


Curve 3

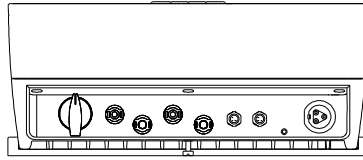


Curve 4

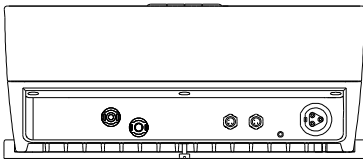
■ GSI-4600



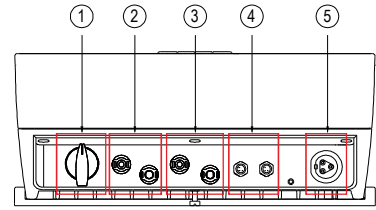
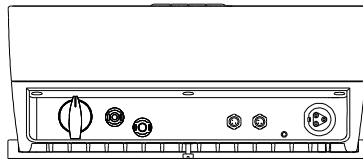
■ GSI-4600A



■ GSI-3000



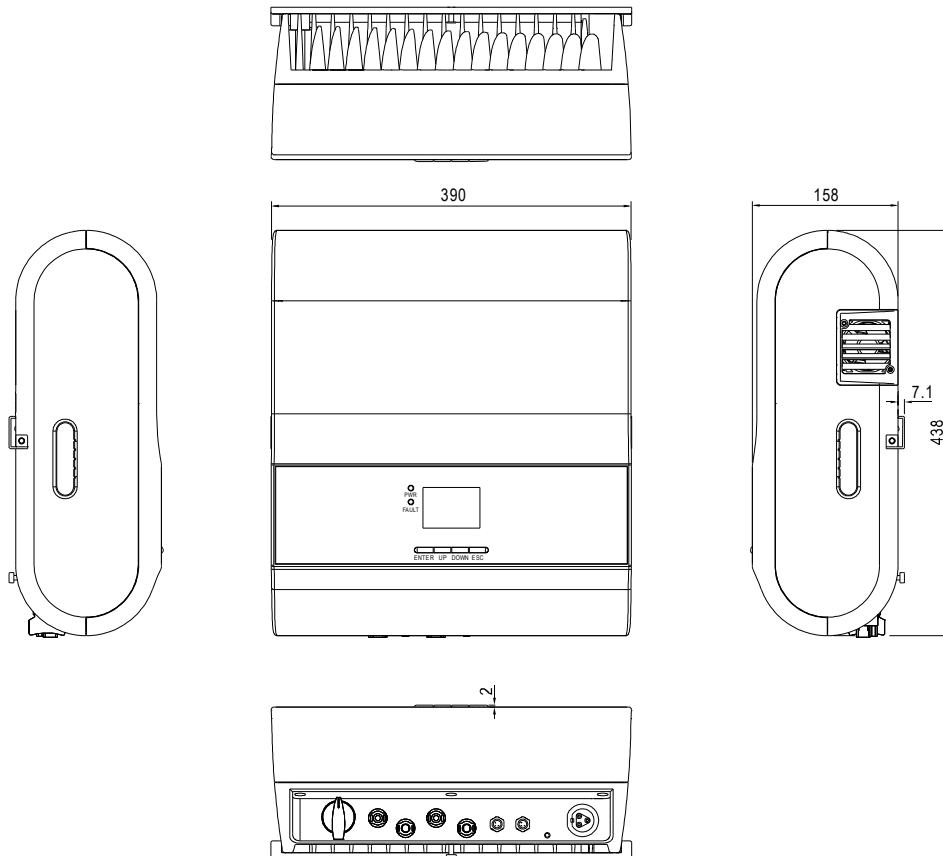
■ GSI-3000A



- ① DC disconnect switch (Optional for A-Type)
- ② PV String A DC connector
- ③ PV String B DC connector
- ④ Remote Port
- ⑤ AC Connector

■ Mechanical Specification

Case No. 808 Unit:mm



■ Installation Manual

Please refer to : <http://www.meanwell.com/webapp/product/search.aspx?prod=GSI-4600>