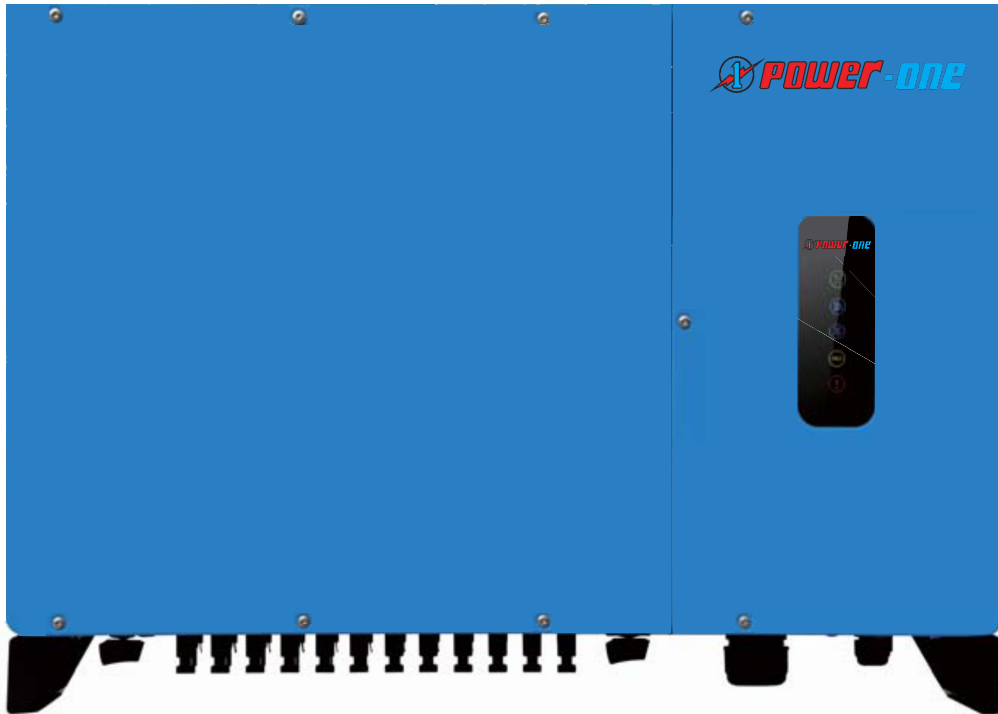




power-one[®]
Micro Systems Pvt. Ltd.



SGTU-120 / SGTU-150 **SGTU-200 / SGTU-250** **String Grid-Tied PV Inverter**

- * 1100Vdc, 400/500Vac (SGTU-120/SGTU-150)
- * 1500Vdc, 800Vac (SGTU-200 / SGTU-250)
- * AFCI Function Optional
- * LED+Bluetooth APP/PLC Optional
- * Smart I-V Curve Function
- * 12/10 MPPT(SGTU-120/SGTU-150)
- * 12 MPPT, 24 DC Inputs (SGTU-200 / SGTU-250)
- * DC and AC Type II SPD
- * Night SVG Function Optional
- * Max.DC/AC ratio up to 1.5

Model	SGTU-150	SGTU-120
Input(DC)		
Max. DC voltage	1100V	
MPPT voltage range	200-1000Vdc	
Rated DC voltage	780V	620V
Number of MPPT	12	10
Strings per MPPT	2	
Max. input current per MPPT	26A	
DC switch	Yes	
Output(AC)		
Nominal AC output power	150KW@25°C, 136kW@40°C, 120KW@50°C	
Max. AC output power	150kW	120kW
Nominal AC voltage	500Vac	230V/400Vac
AC voltage range	400~621V	320~480V
Rated AC grid frequency range	50/60 Hz(±5Hz)(adjustable)	
AC grid frequency range	45~55Hz / 55~ 65Hz	
Rated output current	157A	158.8A
Max. output current	174.5A	176.4A
Power factor (cosθ)	0.8 leading ~ 0.8 lagging	
THDi	<3%	
AC connection	3W+PE	3W+PE(default),3W+N+PE(configurable)
Topology	Transformerless	
Efficiency		
Max. efficiency	99%	98.7%
Euro. efficiency	98.5%	98.3%
MPPT efficiency	99.9%	
Protection devices		
Anti-islanding protection	Yes	
DC anti reverse connection	Yes	
AC Short-circuit protection	Yes	
AC leakage current fault protection	Yes	
Grid monitor	Yes	
DC switch	Yes	
String fault Detection	Yes	
Insulation detection	Yes	
Physical		
Dimensions (W * H * D)mm	1055 x 700 x 336	
Weight(kg)	110	96
Operating temperature range	-25°C~ 60°C	
Noise emission (typical)	≤ 6 0 d B	≤ 7 0 d B
Cooling type	Fan Cooling	
Protection rating	IP66	
Features		
Display	LED Indicator, Bluetooth+APP	
Interfaces	RS485 / WiFi,GPRS,PLC (Optional)	

Specifications subject to change without prior notice.

Model	SGTU-200	SGTU-250
Input(DC)		
Max. DC voltage	1500V	
MPPT voltage range	600-1500Vdc	
MPPT voltage range at full load	880-1300Vdc	
Nominal input voltage	1080V	
Start DC voltage	650V	
Number of strings input	24	
Number of MPPT	12	
Strings per MPPT	2	
Max. input current per MPPT	26A	
Max. short-circuit current per MPPT	35A	
Output(AC)		
Nominal AC output power	200kW @40°C, 175kW @50°C	250kW @40°C, 225kW @50°C
Max. AC apparent power	200kVA	250kVA
Max. AC output power	200kW	250kW
Nominal AC voltage	800Vac,640~920V	
AC connection	3W+PE	
AC grid frequency range	50/60 Hz(±5Hz)(adjustable)	
Rated output current	126.3A	162.4A
Max. output current	144.3A	176.6A
Power factor(cosθ)	0.8 leading ~ 0.8 lagging	
THDi	<3%	
Efficiency		
Max. efficiency	99%	
Euro efficiency	98.5%	
Protection devices		
DC switch	Yes	
Anti-islanding protection	Yes	
Output over current	Yes	
DC anti reverse connection	Yes	
String fault Detection	Yes	
DC surge protection	Yes	
AC surge protection	Yes	
Insulation detection	Yes	
PID recover	Yes	
LVRT	Yes	
Physical		
Dimensions (W * H * D)mm	1055 x 700x336	
Weight(kg)	110	
Operating temperature range	-25°C~ 60°C (>50°C derating)	
Noise emission (typical)	≤ 70dB	
Cooling type	Fan cooling	
Protection rating	IP66	
Humidity	0~100%	
Input terminal	Amphenol	
Topology	Transformerless	
Certification & Standard		
Standard	EN/IEC 62109-1/2;IEC61727;IEC62116;EN 50549;VDE-AR-N-4110	

Specifications subject to change without prior notice.



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