

High Efficiency String Solar Inverter

1700GB 2000GB Technical Data

Type	1700GB	2000GB
DC input data		
Max. PV-generator power [W]	1800	2100
Max. DC Voltage [V]	450	450
MPPT voltage range [V]	125 - 450	125 - 450
Turn off DC Voltage [V]	125	125
Max. DC current [A]	18	18
Nominal DC current [A]	13.8	16.2
Number of DC connection	1	1
Number of MPP trackers	1	1
DC-connection	MC IV-connector	MC IV-connector
Turn on power [W]	10	10
Output data		
AC Connector	Spring-clamp tech	Spring-clamp tech
Power connection	Single phase	Single phase
Rated AC power [W]	1500	1800
Max. AC Power [W]	1650	1980
Grid voltage range	According to AS4777	According to AS4777
Grid frequency range	According to AS4777	According to AS4777
Rated current [A]	6.5	7.8
Max. current [A]	8.25	9.9
Power factor	0.99	0.99
Harmonic distortion (THD) at rated	<2%	<2%
Power consumption at night [W]	<0.2	<0.2
Power consumption at standby [W]	6	6
Efficiency		
Max. efficiency	97.1%	97.1%
Euro efficiency (at 360VDC)	96.5%	96.5%
MPPT adaptation efficiency	99.5%	99.5%
Safety equipment		
Internal overvoltage protection	Integrated	Integrated
DC Insulation monitoring	Integrated	Integrated
Earth fault protection	Integrated	Integrated
Mains monitoring	According to AS4777	According to AS4777
Earth fault current monitoring	According to AS4777	According to AS4777
DC current monitoring	According to AS4777	According to AS4777
Islanding protection	AFI(According to AS4777)	AFI(According to AS4777)
Normative reference		
SAA- compliant according to	AS3100, AS4777, IEC 61000-6-3:2006	AS3100, AS4777, IEC 61000-6-3:2006
General data		
Dimensions (WxHxD) [mm]	350X370X138	
Weight [kg]	14	
Housing	Aluminium housing for inside and outside installation	
Mounting information	Wall bracket	
Operating temperature range	-20°C to +60°C (up 45°C derating)	
Relative humidity	0% to 98%, no condensation	
Site altitude	Up to 2000m without derating above sea level	
IP protection type	IP 65 according to IEC 60529	
Isolation type	Transformerless	
Cooling concept	Convection	
Noise level	< 40 dBA	
LED display	3	
LCD display	Backlight, 16 x 2 Character LCD	
Data logger		
Data communication interfaces	RS485, Optional(Wireless)	
Computer Communication	RS232	
Standard warranty	5 years	



1700/2000GB



**TL2100
TL3200
TL4600
TL5400**

String G83 Solar Inverter 2.1KW 3.2KW 4.6KW 5.4KW

Type	TL 2100	TL 3200	TL 4600	TL 5400
DC input data				
Max. PV-generator power [W]	2100	3200	4600	5400
Max. DC Voltage [V]	580	580	680	680
MPPT voltage range [V]	125 - 530	125 - 530	125 - 550	125 - 550
Turn off DC Voltage [V]	125	125	125	125
Max. DC current [A]	18	20	20	25
Nominal DC current [A]	16.2	18	18	22.5
Number of DC connection	1	1	2	2
Number of MPP trackers	1	1	1	2
DC-connection	MC IV-connector			
Turn on power [W]	10			
Output data				
AC Connector	Spring-clamp tech			
Power connection	Single phase			
Rated AC power [W]	1800	2800	4000	4600
Max. AC Power [W]	1980	3080	4400	5060
Grid voltage range	187-264 V			
Grid frequency range	47.5-50.2 Hz			
Rated current [A]	7.8	12.2	17.4	20.0
Max. current [A]	9.9	15.4	22	25.3
Power factor	0.99	0.99	0.99	0.99
Harmonic distortion (THD) at rated output	<2%	<2%	<2%	<2%
Power consumption at night [W]	<0.2	<0.2	<0.2	<0.2
Power consumption at standby [W]	6	6	6	6
Efficiency				
Max. efficiency	97.1%	97.3%	97.5%	97.5%
Euro efficiency (at 360VDC)	96.5%	96.5%	97.0%	97.0%
MPPT adaptation efficiency	99.5%	99.5%	99.5%	99.5%
Safety equipment				
Internal overvoltage protection	Integrated			
DC Insulation monitoring	Integrated			
Earth fault protection	Integrated			
Mains monitoring	According to VDE 0126-1-1, GB			
Earth fault current monitoring	According to VDE 0126-1-1, GB			
DC current monitoring	According to VDE 0126-1-1, GB			
Islanding Effect Monitoring	AFI(According to VDE 0126-1-1)			
DC disconnecter switch	Optional DC disconnecter with or without load integrated in the device, according to VDE 0100-712			
Normative reference				
CE- compliant according to	EN 50178, EN 61000-6-1, EN 61000-6-3, EN 61000-6-2, EN 61000-6-4 EN61000-3-2, EN61000-3-3 EN61000-3-12, EN61000-3-11			
General data				
Dimensions (WxHxD) [mm]	350 x 550 x 170			
Weight [kg]	25			
Housing	Aluminium housing for inside and outside installation			
Mounting information	Wall bracket			
Operating temperature range	-20°C to +60°C (up 40°C derating)			
Relative humidity	0% to 98%, no condensation			
Site altitude	Up to 2000m without derating above sea level			
IP protection type	IP 65 according to IEC 60529			
Isolation type	Transformerless			
Cooling concept	Convection		Regulated cooling	
Noise level	< 40 dBA			
LED display	3			
LCD display	Backlight, 16 x 2 Character LCD			
Data logger	RS485 (Optional Zigbee)			
Data communication interfaces	RS485 (Optional Zigbee)			
Computer Communication	RS232			
Standard warranty (option)	5 years			