



SEZIONE A-A

pannello fotovoltaico

zavorra in cfs

zavorra in cfs

The diagram illustrates a photovoltaic system configuration. At the top, nine solar strings are labeled: Stringa 1 (n°16 pann.), Stringa 2 (n°16 pann.), Stringa 3 (n°16 pann.), Stringa 4 (n°17 pann.), Stringa 5 (n°17 pann.), Stringa 6 (n°17 pann.), Stringa 7 (n°17 pann.), Stringa 8 (n°17 pann.), and Stringa 9 (n°17 pann.). Each string is represented by a grid of solar panels. Below the strings, three inverters are shown: Inverter 1 (15000TL), Inverter 2 (20000TL), and Inverter 3 (20000TL). Stringa 1 and 2 are connected to Inverter 1. Stringa 3 and 4 are connected to Inverter 2. Stringa 5, 6, 7, 8, and 9 are connected to Inverter 3. All three inverters are connected to a central unit at the bottom labeled 'QUADRO FOTOVOLTAICO'.

SPECIFICHE MECCANICHE	
Dimensioni	1740mm x 1050mm x 50mm (profondità inclusa)
Peso	15,9kg
Tratto frontale	3,2mm minimali divario temperato con tecnologia anti-riflesso
Tratto posteriore	Pellicola completa
Corona	Legno di alto livello anallorizzato nero
Collo	6 x 20 semipila monostatica G.ARTUR
Scatole di giunzione	32-311 mm 32-40 mm 19-19 mm Fusione: PPS con 30% di fibra di carbonio
Cavo	Cavo solare 4mm ² (V) x 1150mm (V) x 1150mm (V)
Completore	Strutture S&B, lamine G.CELL3 HDCA, IP68

		SPECIFICHE ELETTRICHE				
CLASSI PRESTAZIONE			340	345	350	355
PRESTAZIONE MINIMA IN CONDIZIONI DI PROVA STANDARD, TEST (CAPACITÀ DI TOLLERANZA +5W/-0 W)						
Alimentazione	Preselezione di MPPT	Power	340	345	350	355
	Corrente di cortocircuito	Isc	16,68	16,79	16,79	16,84
	Corrente massima	I _{mp}	42,54	42,54	42,54	42,58
	Corrente max MPPT	I _{mpmax}	33,36	33,36	33,36	33,36
	Trasmissione max MPPT	V _{mp}	10,45	10,27	10,27	10,37
Alimentazione	Trasmissione max MPPT	V _{mp}	10,45	10,27	10,27	10,37
	Trasmissione max MPPT	V _{mp}	10,45	10,27	10,27	10,37
	Trasmissione max MPPT	V _{mp}	10,45	10,27	10,27	10,37
	Trasmissione max MPPT	V _{mp}	10,45	10,27	10,27	10,37
	Trasmissione max MPPT	V _{mp}	10,45	10,27	10,27	10,37
PRESTAZIONE MINIMA IN CONDIZIONI DI NORMALE FUNZIONAMENTO, MINIMO						
Alimentazione	Preselezione di MPPT	Power	264,5	265,2	265,8	267,7
	Corrente di cortocircuito	Isc	8,60	8,65	8,65	8,68
	Corrente massima	I _{mp}	8,94	8,94	8,94	8,96
	Corrente max MPPT	I _{mpmax}	8,50	8,51	8,51	8,51
	Trasmissione max MPPT	V _{mp}	31,81	32,10	32,40	32,68

Figure 10 consists of three subplots labeled (a), (b), and (c).

Subplot (a) is a bar chart titled "Rendimento medio annuo (%)". The y-axis ranges from 0 to 100. The x-axis shows "Temperatura ambiente (°C)" with values 15, 20, 25, 30, and 35. For each ambient temperature, there are three bars representing different operating temperatures: 30, 35, and 40 °C. The legend indicates three series: GCELLS (black bars), GCELLS + GCELLS (grey bars), and GCELLS + GCELLS + GCELLS (white bars). The performance generally increases with both ambient and operating temperature, with the triple GCELLS configuration showing the highest efficiency.

Subplot (b) is a line graph titled "Potenza nominale per cella (W)". The y-axis ranges from 0 to 100. The x-axis shows "Temperatura ambiente (°C)" from 15 to 35. Two lines are plotted: a solid line for "Potenza nominale per cella (W) secondo l'ETAS" and a dashed line for "Potenza nominale per cella (W) secondo l'ETAS + GCELLS". Both lines show an increase in power with temperature, with the GCELLS-enhanced system providing higher power output.

Subplot (c) is a line graph titled "Rendimento medio annuo (%)". The y-axis ranges from 0 to 100. The x-axis shows "Temperatura ambiente (°C)" from 15 to 35. Two lines are plotted: a solid line for "Rendimento medio annuo (%) secondo l'ETAS" and a dashed line for "Rendimento medio annuo (%) secondo l'ETAS + GCELLS". The dashed line (GCELLS-enhanced) consistently shows higher annual efficiency than the solid line (ETAS standard).

COEFFICIENTI DI TEMPERATURA IN CONDIZIONI STANDARD									
Coefficienti di temperatura di I_{sc}		α	[%/K]	+0,04	Coefficienti di temperatura di V_{oc}		β	[%/K]	-0,27
Coefficienti di temperatura di P_{MPP}		γ	[%/K]	-0,36	Nominal Module Operating Temperature		NMOT	[°C]	43±3

Tensione massima di sistema	V_{sys} [V]	1000	Classificazione modulo fotovoltaico	Classe II
Massima corrente inversa	I_r [A]	20	Resistenza al fuoco basata su ANSI / UL 61730	C / TYPE 2
Carico max. ammissibile di compressione / di trazione	[Pa]	3600 / 2667	Temperatura dei moduli consentita in funzionamento continuo	-40°C - +85°C
Carico max. di prova di compressione / di trazione	[Pa]	5400 / 4000		

<p>VGI Quality Tested, ISO 61223-2016, EC 61250-2016, Dopo averlo controllato conferire alla normativa DIN EN 80600.</p> <p> </p>	   
<p>inballuglie orizzontale</p>	<p>1780mm 1080mm 1208mm 679,8kg 28 pallet 28 pallet 32 moduli</p>
<p>inballuglie</p>	<p>1815mm 1150mm 1220mm 683kg 28 pallet 24 pallet 32 moduli</p>

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AVVISO: È necessario atterrare rigorosamente alle Istruzioni riportate nel manuale di installazione. Per ulteriori informazioni sulle possibilità di utilizzo del prodotto, consultate le Istruzioni per l'installazione e per l'uso. Q CELLS fornisce i moduli solari con due diverse modalità di impianto, a seconda del luogo di fabbricazione: i moduli sono imbaltiti in senso orizzontale o verticale. Per informazioni dettagliate, si rimanda al documento "Informazioni di collaudo e trasporto", ottenibile da Q CELLS.

Efficiency Curve

The main graph shows Efficiency (%) on the y-axis (86 to 98) versus Output power / Rated power on the x-axis (0.0 to 1.0). Three curves are plotted for different input voltages: 540V (red), 600V (blue), and 650V (green). All curves show high efficiency, peaking around 96-97% at 0.5 output power. An inset graph shows the temperature rise ΔT_{amb} (°C) on the y-axis (0 to 80) versus Output power / Rated power on the x-axis (0.0 to 1.0). The temperature rise increases with output power, reaching approximately 60°C at 1.0 output power.

Accessory

- USB interface
 SW480C3-10
- Power Control Module
 PFCW4C3-10
- DC voltage sensor (Sp1)
 sensor 4 and 6
 PFCW4C3-10
- Multichannel relay
 SW480C-10

● Standard interface ○ Optional features - Not available
 Date of material update: March 2020

Technical Data		Summary 1500TL	Summary 2000TL	Summary 2500TL
Input (AC)				
Max. generator power		2700W max	3600W max	4500W max
AC input power		1500W max	2040W max	2550W max
Max. input voltage		100V ¹	100V ¹	100V ¹
MPPT voltage range / rated input voltage		240V to 600V / 600V	320V to 600V / 600V	390V to 600V / 600V
Max. input voltage / MPPT input voltage		150V / 118V ¹	150V / 118V ¹	150V / 118V ¹
Max. input current at V _{mppt} / I _{mppt}		23A / 23A	31A / 32A	37A / 37A
Power of maximum MPPT input / MPPT input per string		27A/3.83 / 27A/3.83	37A/5.83 / 37A/5.83	45A/6.83 / 45A/6.83
Output (AC)				
AC output power (at 230V, 50Hz)		1500W max	2000W max	2500W max
Max. AC apparent power		1500VA max	2000VA max	2500VA max
AC nominal voltage		1500V max	2000V max	2500V max
AC voltage range		3 / N / PE 220V / 380V	3 / N / PE 220V / 400V	3 / N / PE 220V / 415V
AC AC frequency / range		50 / Hz 44 Hz to 55 Hz	50 / Hz 44 Hz to 55 Hz	50 / Hz 44 Hz to 55 Hz
Rated power frequency / rated grid voltage		50 / Hz 220V	50 / Hz 220V	50 / Hz 220V
Max. output current / Rated output current		29A / 29A / 17A	29A / 29A / 17A	36.2A / 36.2A / 22A
Power factor of output power / Adjustable, displacement power factor		0.99	0.99	0.99
THD		≤ 3%	≤ 3%	≤ 3%
Test cycles / connection phase		3 / 3		
Efficiency				
Max. efficiency / European Efficiency		98.4% / 98.0%	98.4% / 98.0%	98.3% / 98.1%
Protective devices				
OC Disconnector			●	●
Ground fault monitoring / ground monitoring			●	●
DC surge arrester (Type II) can be integrated			●	●
DC surge arrester protection / AC short-circuit current capability / galvanically isolated			●	●
AC/DC surge arrester / AC/DC surge arrester monitoring set			●	●
Protection class according to IEC 62410-1 / percentage class according to IEC 62410-1			1 / AC, 1 / DC	1 / AC, 1 / DC
General data				
Dimensions W / H / D		641 / 642 / 244 mm (25.0 / 25.3 / 9.6 inch)		
Weight		4.0 kg (8.8 lb)		
Operating temperature range		-25°C ~ +60°C (13°F ~ 140°F)		
Noise emission (typical)		35 dBA (1m)		
Salicommunication (typical)		1W		
Topology / cooling concept		1 / 1		
Degree of protection (IP)		IP65		
Climate category (according to IEC 60731-3)		40/41		
Maximum temperature rise w/ relative humidity (noncondensing)		100%		
Features / Functions / Accessories				
DC/AC, AC connection			SUNLOCK / spring-type terminal	
Display		0 / ●		
Interface: RS485, Speechless, WiModem		0 / ●		
Data interface: SMA Modbus / SunSpec Modbus		● / ●		
Communication / Power Control module		● / ●		
Shade management: SMA ShadeS ² / Integral Panel Control / On Demand 24/7		● / ●		
OnGrid ready / SMA Low Loss Control		● / ●		
Guarantee: 5 / 10 / 15 years		● / ● / ●		
Certificates and notes (more available on request)				
1 - Does not apply to all related applications of BE 53428				
Technical Data				
Type designation		ST 1500TL-30	ST 2000TL-30	ST 2500TL-30
AC output power (at 230V, 50Hz)		1500W max	2000W max	2500W max
Max. AC apparent power		1500VA max	2000VA max	2500VA max
AC nominal voltage		1500V max	2000V max	2500V max
AC voltage range		3 / N / PE 220V / 380V	3 / N / PE 220V / 400V	3 / N / PE 220V / 415V
AC AC frequency / range		50 / Hz 44 Hz to 55 Hz	50 / Hz 44 Hz to 55 Hz	50 / Hz 44 Hz to 55 Hz
Rated power frequency / rated grid voltage		50 / Hz 220V	50 / Hz 220V	50 / Hz 220V
Max. output current / Rated output current		29A / 29A / 17A	29A / 29A / 17A	36.2A / 36.2A / 22A
Power factor of output power / Adjustable, displacement power factor		0.99	0.99	0.99
THD		≤ 3%	≤ 3%	≤ 3%
Test cycles / connection phase		3 / 3		
Efficiency				
Max. efficiency / European Efficiency		98.4% / 98.0%	98.4% / 98.0%	98.3% / 98.1%
Protective devices				
OC Disconnector			●	●
Ground fault monitoring / ground monitoring			●	●
DC surge arrester (Type II) can be integrated			●	●
DC surge arrester protection / AC short-circuit current capability / galvanically isolated			●	●
AC/DC surge arrester / AC/DC surge arrester monitoring set			●	●
Protection class according to IEC 62410-1 / percentage class according to IEC 62410-1			1 / AC, 1 / DC	1 / AC, 1 / DC
General data				
Dimensions W / H / D		641 / 642 / 244 mm (25.0 / 25.3 / 9.6 inch)		
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Noise emission (typical)		35 dBA (1m)		
Salicommunication (typical)		1W		
Topology / cooling concept		1 / 1		
Degree of protection (IP)		IP65		
Climate category (according to IEC 60731-3)		40/41		
Maximum temperature rise w/ relative humidity (noncondensing)		100%		
Features / Functions / Accessories				
DC/AC, AC connection			SUNLOCK / spring-type terminal	
Display		0 / ●		
Interface: RS485, Speechless, WiModem		0 / ●		
Data interface: SMA Modbus / SunSpec Modbus		● / ●		
Communication / Power Control module		● / ●		
Shade management: SMA ShadeS ² / Integral Panel Control / On Demand 24/7		● / ●		
OnGrid ready / SMA Low Loss Control		● / ●		
Guarantee: 5 / 10 / 15 years		● / ● / ●		
Certificates and notes (more available on request)				
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AC voltage range		3 / N / PE 220V / 380V	3 / N / PE 220V / 400V	3 / N / PE 220V / 415V
AC AC frequency / range		50 / Hz 44 Hz to 55 Hz	50 / Hz 44 Hz to 55 Hz	50 / Hz 44 Hz to 55 Hz
Rated power frequency / rated grid voltage		50 / Hz 220V	50 / Hz 220V	50 / Hz 220V
Max. output current / Rated output current		29A / 29A / 17A	29A / 29A / 17A	36.2A / 36.2A / 22A
Power factor of output power / Adjustable, displacement power factor		0.99	0.99	0.99
THD		≤ 3%	≤ 3%	≤ 3%
Test cycles / connection phase		3 / 3		
Efficiency				
Max. efficiency / European Efficiency		98.4% / 98.0%	98.4% / 98.0%	98.3% / 98.1%
Protective devices				
OC Disconnector			●	●
Ground fault monitoring / ground monitoring			●	●
DC surge arrester (Type II) can be integrated			●	●
DC surge arrester protection / AC short-circuit current capability / galvanically isolated			●	●
AC/DC surge arrester / AC/DC surge arrester monitoring set			●	●
Protection class according to IEC 62410-1 / percentage class according to IEC 62410-1			1 / AC, 1 / DC	1 / AC, 1 / DC
General data				
Dimensions W / H / D		641 / 642 / 244 mm (25.0 / 25.3 / 9.6 inch)		
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Operating temperature range		-25°C ~ +60°C (13°F ~ 140°F)		
Noise emission (typical)		35 dBA (1m)		
Salicommunication (typical)		1W		
Topology / cooling concept		1 / 1		
Degree of protection (IP)		IP65		
Climate category (according to IEC 60731-3)		40/41		
Maximum temperature rise w/ relative humidity (noncondensing)		100%		
Features / Functions / Accessories				
DC/AC, AC connection			SUNLOCK / spring-type terminal	
Display		0 / ●		
Interface: RS485, Speechless, WiModem		0 / ●		
Data interface: SMA Modbus / SunSpec Modbus		● / ●		
Communication / Power Control module		● / ●		
Shade management: SMA ShadeS ² / Integral Panel Control / On Demand 24/7		● / ●		
OnGrid ready / SMA Low Loss Control		● / ●		
Guarantee: 5 / 10 / 15 years		● / ● / ●		
Certificates and notes (more available on request)				
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Technical Data				
Type designation		ST 1500TL-30	ST 2000TL-30	ST 2500TL-30
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AC voltage range		3 / N / PE 220V / 380V	3 / N / PE 220V / 400V	3 / N / PE 220V / 415V
AC AC frequency / range		50 / Hz 44 Hz to 55 Hz	50 / Hz 44 Hz to 55 Hz	50 / Hz 44 Hz to 55 Hz
Rated power frequency / rated grid voltage		50 / Hz 220V	50 / Hz 220V	50 / Hz 220V
Max. output current / Rated output current		29A / 29A / 17A	29A / 29A / 17A	36.2A / 36.2A / 22A
Power factor of output power / Adjustable, displacement power factor		0.99	0.99	0.99
THD		≤ 3%	≤ 3%	≤ 3%
Test cycles / connection phase		3 / 3		
Efficiency				
Max. efficiency / European Efficiency		98.4% / 98.0%	98.4% / 98.0%	98.3% / 98.1%
Protective devices				
OC Disconnector			●	●
Ground fault monitoring / ground monitoring			●	●
DC surge arrester (Type II) can be integrated			●	●
DC surge arrester protection / AC short-circuit current capability / galvanically isolated			●	●
AC/DC surge arrester / AC/DC surge arrester monitoring set			●	●
Protection class according to IEC 62410-1 / percentage class according to IEC 62410-1			1 / AC, 1 / DC	1 / AC, 1 / DC
General data				
Dimensions W / H / D		641 / 642 / 244 mm (25.0 / 25.3 / 9.6 inch)		
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Operating temperature range		-25°C ~ +60°C (13°F ~ 140°F)		
Noise emission (typical)		35 dBA (1m)		
Salicommunication (typical)		1W		
Topology / cooling concept		1 / 1		
Degree of protection (IP)		IP65		
Climate category (according to IEC 60731-3)		40/41		
Maximum temperature rise w/ relative humidity (noncondensing)		100%		
Features / Functions / Accessories				
DC/AC, AC connection			SUNLOCK / spring-type terminal	
Display		0 / ●		
Interface: RS485, Speechless, WiModem		0 / ●		
Data interface: SMA Modbus / SunSpec Modbus		● / ●		
Communication / Power Control module		● / ●		
Shade management: SMA ShadeS ² / Integral Panel Control / On Demand 24/7		● / ●		
OnGrid ready / SMA Low Loss Control		● / ●		
Guarantee: 5 / 10 / 15 years		● / ● / ●		
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AC AC frequency / range		50 / Hz 44 Hz to 55 Hz	50 / Hz 44 Hz to 55 Hz	50 / Hz 44 Hz to 55 Hz
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Power factor of output power / Adjustable, displacement power factor		0.99	0.99	0.99
THD		≤ 3%	≤ 3%	≤ 3%
Test cycles / connection phase		3 / 3		
Efficiency				
Max. efficiency / European Efficiency		98.4% / 98.0%	98.4% / 98.0%	98.3% / 98.1%
Protective devices				
OC Disconnector			●	●
Ground fault monitoring / ground monitoring			●	●
DC surge arrester (Type II) can be integrated			●	●
DC surge arrester protection / AC short-circuit current capability / galvanically isolated			●	●
AC/DC surge arrester / AC/DC surge arrester monitoring set			●	●
Protection class according to IEC 62410-1 / percentage class according to IEC 62410-1			1 / AC, 1 / DC	1 / AC, 1 / DC
General data				
Dimensions W / H / D		641 / 642 / 244 mm (25.0 / 25.3 / 9.6 inch)		
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Operating temperature range		-25°C ~ +60°C (13°F ~ 140°F)		
Noise emission (typical)		35 dBA (1m)		
Salicommunication (typical)		1W		
Topology / cooling concept		1 / 1		
Degree of protection (IP)		IP65		
Climate category (according to IEC 60731-3)		40/41		
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DC/AC, AC connection			SUNLOCK / spring-type terminal	
Display		0 / ●		
Interface: RS485, Speechless, WiModem		0 / ●		
Data interface: SMA Modbus / SunSpec Modbus		● / ●		
Communication / Power Control module		● / ●		
Shade management: SMA ShadeS ² / Integral Panel Control / On Demand 24/7		● / ●		
OnGrid ready / SMA Low Loss Control		● / ●		
Guarantee: 5 / 10 / 15 years		● / ● / ●		
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Protective devices				
OC Disconnector			●	●
Ground fault monitoring / ground monitoring			●	●
DC surge arrester (Type II) can be integrated			●	●
DC surge arrester protection / AC short-circuit current capability / galvanically isolated			●	●
AC/DC surge arrester / AC/DC surge arrester monitoring set			●	●
Protection class according to IEC 62410-1 / percentage class according to IEC 62410-1			1 / AC, 1 / DC	1 / AC, 1 / DC
General data				
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Degree of protection (IP)		IP65		
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Features / Functions / Accessories				
DC/AC, AC connection			SUNLOCK / spring-type terminal	
Display		0 / ●		
Interface: RS485, Speechless, WiModem		0 / ●		
Data interface: SMA Modbus / SunSpec Modbus		● / ●		
Communication / Power Control module		● / ●		
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OnGrid ready / SMA Low Loss Control		● / ●		
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Certificates and notes (more available on request)				
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AC AC frequency / range		50 / Hz 44 Hz to 55 Hz	50 / Hz 44 Hz to 55 Hz	50 / Hz 44 Hz to 55 Hz
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Power factor of output power / Adjustable, displacement power factor		0.99	0.99	0.99
THD		≤ 3%	≤ 3%	≤ 3%
Test cycles / connection phase		3 / 3		
Efficiency				
Max. efficiency / European Efficiency		98.4% / 98.0%	98.4% / 98.0%	98.3% / 98.1%



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