SUNZET TL

Single-phase on-grid solar inverters range

Description

The SUNZET TL combines design and versatility with ease of operation. An outstanding feature of SUNZET TL inverters is their 96% efficiency without transformer.
The SUNZET TL stands out because of its RS-485 communications with the centralised supervision and control system and all its parameters can be configured locally (optional).
The SUNZET TL offers a range of input DC voltages of between 120-500 vdc and IP65 watertightness.

Sunzet 5 TL

Features

- Range of input voltages (120-500 VDC)
- Maximum power point tracking (MPPT)
- High energy efficiency, higher than 96%
- Very low harmonic distortion, THD < 4%
- Direct mains connection
- Unlimited parallel connection arrangements
- Anti-islanding protection with automatic shut down
- Monitoring from the unit with LCD
- Protection against: inverse polarity, short-circuits, overvoltages, isolation failure
- RS-485 communication port (optional)
- Compact size, light weight
- Remote SCADA (SWS 200): communications system, parameter display, inverter records control, production data storage etc. (optional)

Connectivity and accessories

- **SWS 200**

  The SWS 200 Scada system is a platform for monitoring and register variables, check and modify the settings as well as customise all parameters from the SUNZET TL inverters. (optional)

See more information about connectivity and accessories on page 48

ELECTRICAL CHARACTERISTICS					
Model	**Sunzet TL 2**	**Sunzet TL 3**	**Sunzet TL 3,6**	**Sunzet TL 4**	**Sunzet TL 5**
Reference	20104	20105	20106	20107	20108
Max. output power	2 KW	3 KW	3.6 KW	4 KW	5 KW
SYSTEM					
Conversion mode	High frequency PWM				
Electromechanical method	Low loss transformer (optional)				
DC INPUT					
Nominal DC voltage	360V				
Maximum DC voltage	500V				
Operating range DC	120-500V				
Operating range DC for MPPT	150-450V				
No. input circuits	1(14.6A Max. x circuit)	1(22A Max. x circuit)	2(12.2A Max. x circuit)	2(14A Max. x circuit)	2(17.65A Max. x circuit)
AC OUTPUT					
No. phases/No. wires	1- phase/2- wires or 1 – phase/ 3 – wires (LNG)				
Nominal voltage AC	230V				
Nominal frequency	50/60 Hz				
Nominal output current AC	8.7 A	13 A	15.2 A	17.4 A	21.7 A
Power factor	Over 0.99 (at nominal output current)				
European efficiency	96%				
PROTECTION					
Input	Ground fault / DC isolation fault				
Output	Over-undervoltage/ Over-under frequency / Islanding				
Protection class	IP 65				
Anti-islanding detection	Active method: reactive power control				
INTERFACE					
Standard	RS232				
Optional	RS485				
ENVIRONMENTAL CHARACTERISTICS					
Temperature	-10°C to +50°C				
Relative humidity	0-90% without condensation				
Altitude	< 2000m				
MECHANICAL CHARACTERISTICS					
Dimensions (WxHxD) mm	170x455x430		170x445x510		
Weight kg	22		29		
Cooling	Free convection				
STANDARDS					
Certificates	CE Marking, UL, VDE				
Directives	73/23/CEE-93/68/CEE 2004/108/CEE				
Standards	EN50178 EN 61000-6-2, EN 61000-6-3,EN 61000-3-2,EN 61000-3-3 IEC60146				
Countries standards					
USA	UL1741, IEEE1547 FCC				
Italy	ENEL				
Germany	VDE0126-1-1				
Australia	AS/NZS3100:2099, AS/NZS4777.2:2005 AS/NZS4477.3:2005				

Power derating protection at low DC input & high room temperature.
These specifications may be changed without notice.