



Article number: 231 780
Description: SMC 6000TL

Input variables (DC)

Max. output	$P_{PV, max}$	6200 W
Voltage range	U_{PV}	335 – 700 V
Max. input voltage	$I_{PV, max}$	19 A
Max. no. of strings (parallel)		4
Separator	MC-T3 plug system	
Earth leakage protection		Yes
Reverse battery protection		Yes

Output values (AC)

Max. output	$P_{AC, max}$	6000 W
Power rating	$P_{AC, B}$	6000 W
Distortion factor	k	< 4 %
Voltage operating range	U_{AC}	198 – 253 V
Frequency range	f_{AC}	47.5 – 50.2 Hz
Short circuit stability		Yes
Mains connection	High-strength cable gland	

Max. efficiency	η_{max}	98.0 %
European efficiency level	η_{euro}	<97.7 %
Power consumption (operational)		< 10 W
Power consumption (night-time operation)		0.25 W
Size (W x H x D)		468 x 613 x 242 mm
Weight		approx. 31.0 kg
Protection (DIN EN 60 529)		IP65
Operating temperature range		-25 °C ... +60 °C

Operational data displayed:

- Current feed values
- Current voltage
- Overall yield
- No. hours operation to present
- Daily yield
- Fault
- Cause of fault

Note:

An unbalanced load of more than 4.6 kVA must be avoided.

Inverter: SMC 6000TL

The **SMC 6000TL Mini Central inverter** offers the advantages of an inverter with transformer, together with all necessary monitoring and protective devices (ENS) for secure operation of a photovoltaic installation without separate shut-off device. IP65 protection and compact dimensions allow the SMC 6000TL to be installed directly on the solar generator. This both obviates the need for a separate space or switch cupboard for installation and keeps cable-related losses to a minimum.

The efficiency level of 96% for inverter with transformer, unique in its class, ensures the highest possible yields. Its new, active cooling concept ensures that the system operates reliably even where ambient temperatures are high.

Quality features, certificates

- Communication via RS232, RS485 or radio signal using Sunny Beam.
- Extremely efficient
- DC connection: MC-T3 plug-in system
- No photovoltaic current distribution required any more
- Integrated mains monitoring (VDEW regulations)
- Diagnosis and communication via the network: PV voltage, mains voltage and mains frequency, feed supply and feed output, operating hours, energy supplied (kWh), operating mode.
- Protection class IP 65
- Protection of installation and people through sensitive protective circuit, insulation monitoring, and protection against excess voltage.
- CE mark
- Extended temperature range (-25 °C to +60 °C ambient temperature).
- Key operating data and faults displayed on a special cover.