



**Article number:** 231 782  
**Description:** SMC 8000TL

#### Input variables (DC)

Max. output	$P_{PV, max}$	8250 W
Voltage range	$U_{PV}$	335 – 700 V
Max. input voltage	$I_{PV, max}$	25 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	$P_{AC, max}$	8000 W
Power rating	$P_{AC, B}$	8000 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	$\eta_{max}$	98.0 %
European efficiency level	$\eta_{euro}$	<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. 33.0 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 8000TL

The **SMC 8000TL Mini Central inverters** offer 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 8000TL 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.