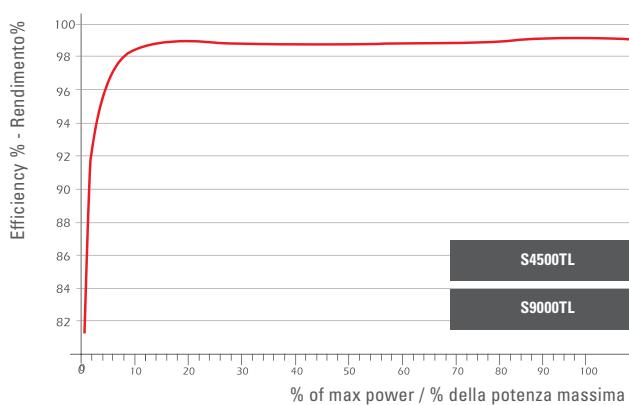
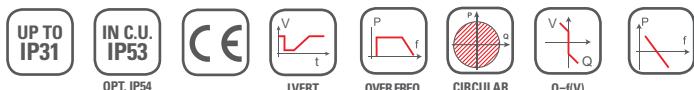
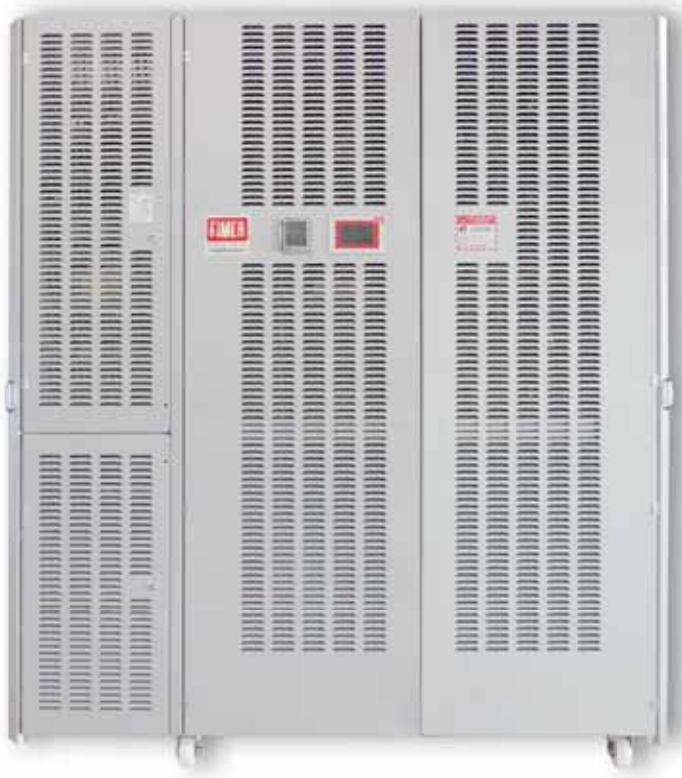


S4500 TL

S34.135.340

S9000 TL

S38.335.340



MAXIMUM EFFICIENCY

98.9 %

NOMINAL AC VOLTAGE

330 V_{AC} ± 10%

BATTERY VOLTAGE RANGE

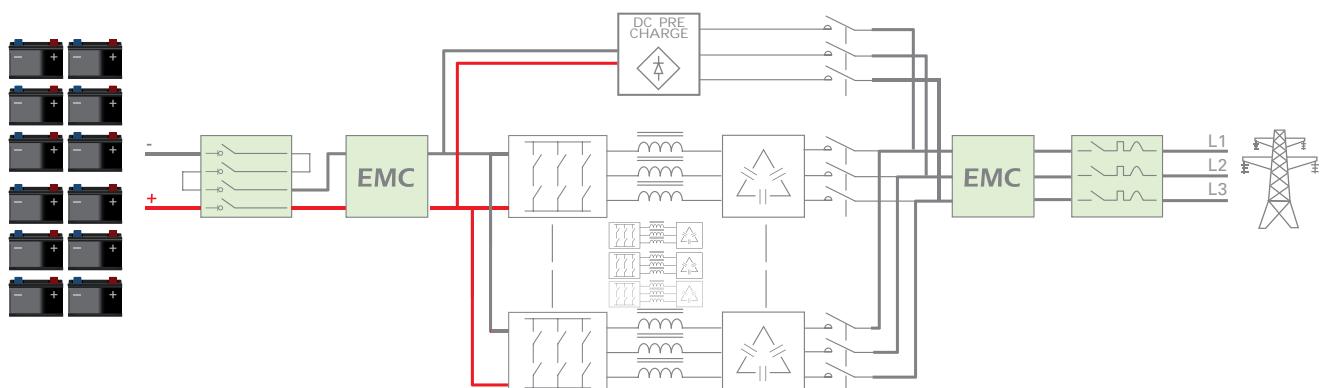
610 - 1.000V_{DC}

Advantage

- > High efficiency, up to 99%.
- > Modular inverter (MPS system).
- > Elimination of machine down-times.
- > Easy maintenance.
- > Large lifetime.
- > Elevato rendimento fino al 99%.
- > Inverter modulari (sistema MPS).
- > Eliminazione dei fermi macchina.
- > Facilità nelle operatività di manutenzione.
- > Lunga durata dei componenti.

Features

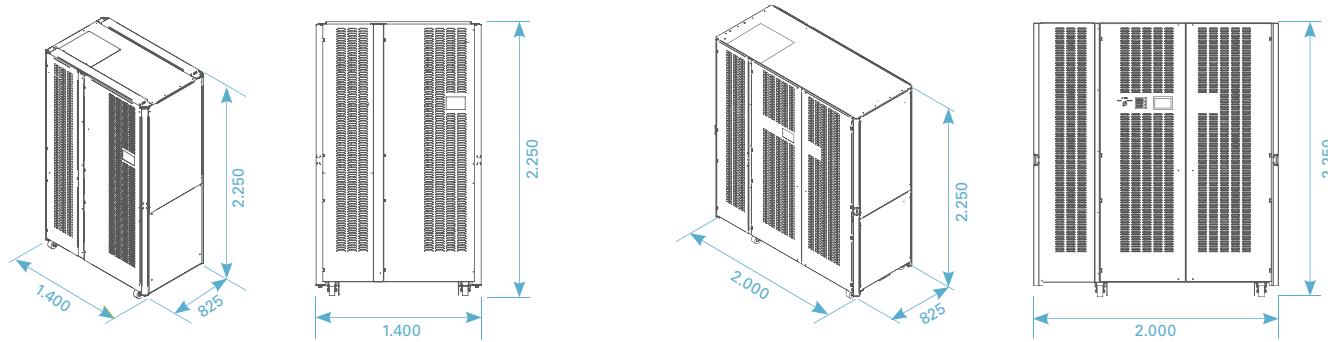
- > Use of a single magnetic component each module.
- > Advance modularity (according to IPCCCM algorithm).
- > Continual monitoring of the system and integrated datalogger.
- > Outbound communication.
- > Impiego di un singolo componente magnetico per ciascun modulo.
- > Modularità all'avanguardia (secondo l'algoritmo IPCCCM).
- > Supervisione continua del sistema e datalogger integrato.
- > Comunicazione verso il mondo esterno.



Note: Block diagram refers to the converter S4500TL
Lo schema a blocchi si riferisce al convertitore S4500TL

S4500 TL

S9000 TL



DC Input - PV Module

Model	S4500 TL	S9000 TL
Battery voltage Range (V_{DC})	610 – 1.000	610 – 1.000
Battery type	Li-ion, Lead, Ni-Cd, NaNiCl ₂	Li-ion, Lead, Ni-Cd, NaNiCl ₂
Absolute Maximum Voltage (V_{DC})	1.100	1.100
Maximum input current (A_{DC})	800	1.600
Voltage Ripple	<2%	<2%
Number of input max in parallel	4	4
Overvoltage Protection	SPD varistor device Class II (optional Class I+II)	SPD varistor device Class II (optional Class I+II)
DC input connection	DC Switch under load	DC Switch under load
Reverse Polarity Protection	Yes	Yes

AC Output grid

Max Power (kW) (Note1)	416 kW	833 kW
Max Apparent Power (kVA)	416 kVA	833 kVA
Max Current (A_{AC})	730	1.460
Max unbalance Current	< 2%	< 2%
Nominal Voltage (V_{AC})	330V_{RMS} ±10%	330V_{RMS} ±10%
Frequency (Hz)	50 / 60 Hz	50 / 60 Hz
Nr Phase	3 (L1 – L2 – L3 – PE)	3 (L1 – L2 – L3 – PE)
Aux Supply (Normal Line) (V_{AC} - I_{AC})	230Vac – 16A – 50/60Hz (L-N)	230Vac – 16A – 50/60Hz (L-N)
Aux Supply (Preferential Line) (V_{AC} - I_{AC})	230Vac – 10A – 50/60Hz (L-N)	230Vac – 10A – 50/60Hz (L-N)
Distortion factor (THDi) (Note 2)	<3%	<3%
Power Factor (Note 3)	From 0 to 1 inductive or capacitive	From 0 to 1 inductive or capacitive
Galvanic insulation	No (Transformerless)	No (Transformerless)
AC input connection	Magneto-thermic Circuit Breaker (MCCB)	Magneto-thermic Circuit Breaker (MCCB)

General Data

Max Efficiency	98,9%	98,9%
European Efficiency	98,6%	98,6%
Night consumption (W)	<60	<60
Weight (kg)	1.100	1.600
Protection degree	IP20 (Opt. IP31)	IP20 (Opt. IP31)
Cooling	Air forced cooling fan speed controlled	Air forced cooling fan speed controlled
Air Flow	2.400 m ³ /h	4.800 m ³ /h
Maximum power dissipated in overload condition	12,5 kW - 10.705 Kcal/h	24,9 kW - 21.410 Kcal/h
Noise level (dBA)	70 dBA	70 dBA
Dimensions (H x L x P)	2.250 x 1.400 x 825	2.250 x 2.000 x 825
Operating temperature (°C)	- 10 ÷ +53	- 10 ÷ +53
Storage temperature (°C)	- 20 ÷ +60	- 20 ÷ +60
Humidity (Not condensing) (%)	0 ÷ 95	0 ÷ 95
Height above the sea without derating (Note 4)	1.500 m	1.500 m
Overvoltage Category	II	II
Color	RAL 9006	RAL 9006

Note 1: Valid at P.F.=1 and Vac nominal**Note 2:** THDi is lower than 3% for inverter power greater than 25%.**Note 3:** P-Q capability is circular.**Note 4:** Above 1.500 m derate the Maximum Operating Temperature of 0.4 °C per 100 m up to 3.000 m a.s.l.**Note:** Each inverter must be connected separately to its own LV/MV transformer or it has to be connected to a separate LV secondary input of the LV/MV transformer. Two or more inverters cannot be connected in parallel to the same LV secondary input of the LV/MV transformer.