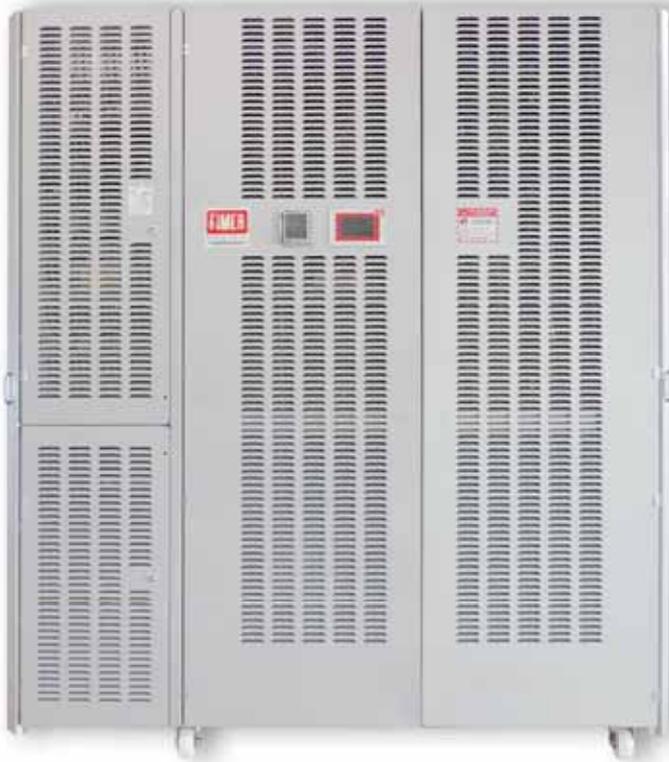


R6800 TL R7500 TL

136.834.030

137.534.030



MAXIMUM EFFICIENCY

98.9 %

OUTPUT VOLTAGE

270 V_{AC} ± 10%

MPPT VOLTAGE RANGE

485 - 820V_{DC}

Advantage

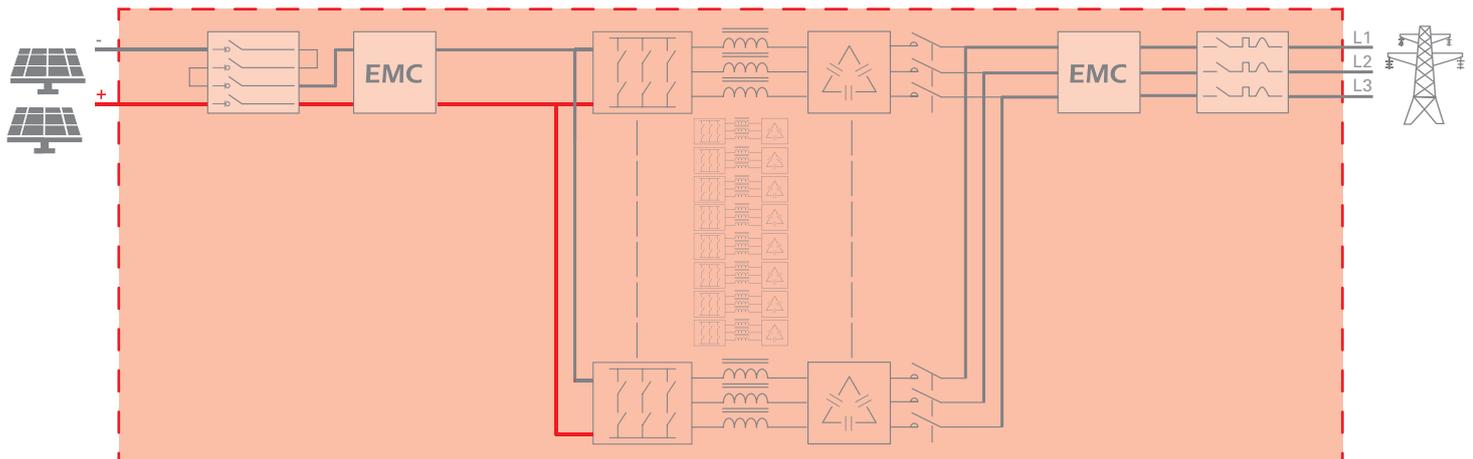
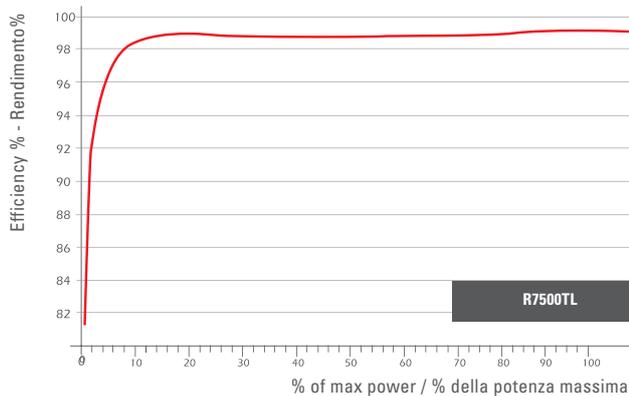
- > High efficiency, up to 99%.
- > Modular inverter (MPS system).
- > Elevato rendimento, fino a 99%.
- > Modularità dell'inverter (MPS system).

Features

- > Use of a single magnetic component each module.
- > Advance modulation (according to IPCCM algorithm).
- > Continuous monitoring of the system and integrated datalogger.
- > Outbound communication.
- > Monitoring of the photovoltaic plant.
- > Impiego di un singolo componente magnetico per ciascun modulo.
- > Modulazione all'avanguardia (secondo l'algoritmo IPCCM).
- > Supervisione continua del sistema e datalogger integrato.
- > Comunicazione verso il mondo esterno.
- > Monitoraggio dell'impianto fotovoltaico.

Accessories

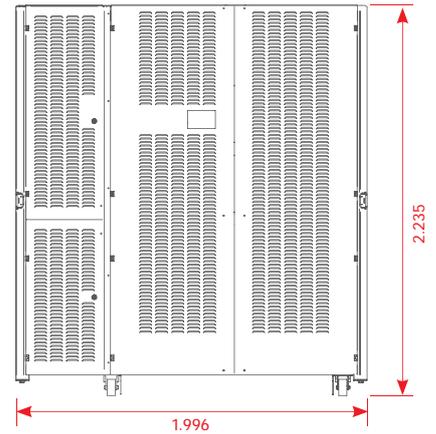
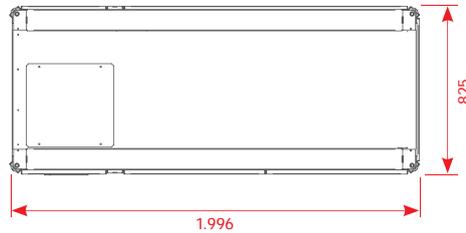
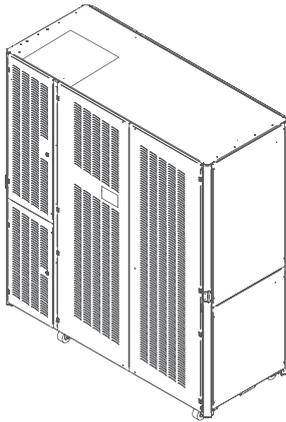
- > Accessories references - page 31
- > Vedi accessori - pagina 31



MV Central Inverter

R6800 TL

R7500 TL



DC Input - PV Module

	R6800TL	R7500TL
MPPT voltage range(V_{DC})	485 - 820 V	485 - 820 V
Absolute max DC voltage (V_{DC})	1.000 V	1.000 V
DC-voltage ripple (%)	<2%	<2%
Maximum input current (A_{DC})	1.350 A	1.500 A
DC control mode	Rapid and efficient MPPT control	Rapid and efficient MPPT control
Number of MPPT	1	1
Reverse Polarity Protection	•	•
DC input connection	Integrated DC Switch	Integrated DC Switch
Overvoltage Protection	SPD varistor device Class II (Opt. Class I+II)	SPD varistor device Class II (Opt. Class I+II)

AC Output grid

	660 kW @ 25°C 621 kW @ 50°C	735 kW @ 25°C 690 kW @ 50°C
Max Power (kW) (Note 1)		
Max Apparent Power S_{max} (kVA)	660 kVA @ 25°C 621 kVA @ 50°C	735 kVA @ 25°C 690 kVA @ 50°C
Maximum Current (A_{AC}) (Note 1)	1.415 A @ 25°C 1.330 A @ 50°C	1.575 A @ 25°C 1.480 A @ 50°C
Max unbalance current	< 2%	< 2%
AC output Voltage (V_{AC})	270V_{RMS} ±10%	270V_{RMS} ±10%
Nr. Phase	3-phase (L1 – L2 – L3 – PE)	3-phase (L1 – L2 – L3 – PE)
Frequency (Hz)	50/60 Hz	50/60 Hz
Aux. power supply ($V_{AC} - I_{AC}$)	230V ±10% - 16A (L-N)	230V ±10% - 16A (L-N)
Auxiliary control supply ($V_{AC} - I_{AC}$)	230V ±10% - 10A (L-N)	230V ±10% - 10A (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	Magnetothermic circuit breaker	Magnetothermic circuit breaker

General Data

Maximum efficiency	98.90%	98.90%
European efficiency	98.62%	98.62%
Static MPPT efficiency	> 99.9 %	> 99.9 %
Dynamic MPPT efficiency	> 99.8 %	> 99.8 %
Night consumption (W)	< 60 W	< 60 W
Weight (kg)	1.610 kg	1.670 kg
Protection degree	IP20 (Opt.31)	IP20 (Opt.31)
Cooling	By using fans speed controlled by temperature	By using fans speed controlled by temperature
Dimensions (W x D x H)	1.996x825x2.235 mm	1.996x825x2.235 mm
Noise level (dBA)	< 70 dBA	< 70 dBA
Operating temperature (°C) (Note 4)	-10° C +53° C	-10° C +53° C
Storage temperature (°C)	-20° C +60° C	-20° C +60° C
Humidity (Not condensing) (%)	0 ÷ 95%	0 ÷ 95%
Height above the sea (without derating) (Note 5)	1.500 m	1.500 m
Air Flow	3.690 m³/h	4.100 m³/h
Overvoltage Category	II	II
Color	RAL 9006	RAL 9006

Note 1: Power factor ($\cos\phi$)= 1 and Vac nominal.

Note 2: THDi is lower than 3% for inverter power greater than 25%.

Note 3: P-Q capability is semicircular with radius equal to S_{max} for all MPPT range.

Note 4: From 45°C to 53°C derating of power.

Note 5: Above 1.500m a.s.l. derating of the power of 1% per 100m.

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.