

# R2215 TL

122.302.050

# R5515 TL

135.532.050

# R6615 TL

136.632.050

## MAXIMUM EFFICIENCY

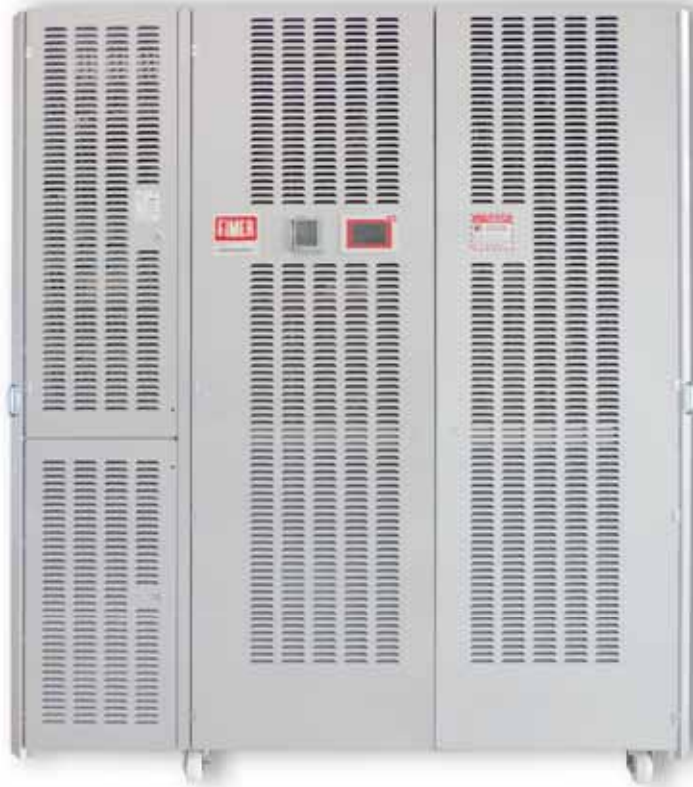
**98.8 %**

## OUTPUT VOLTAGE

**400 V<sub>AC</sub> ± 10%**

## MPPT VOLTAGE RANGE

**675 - 1.320V<sub>DC</sub>**



## Advantage

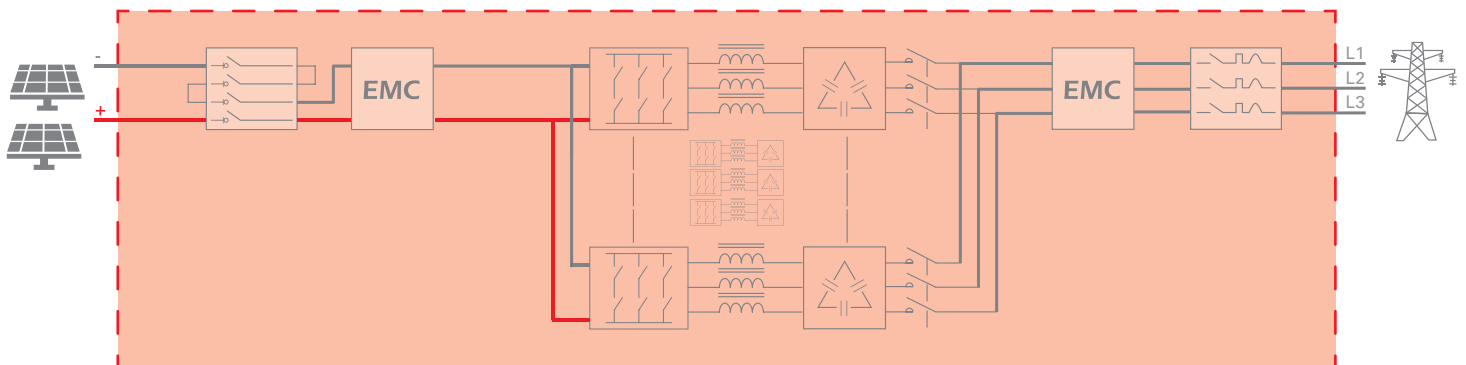
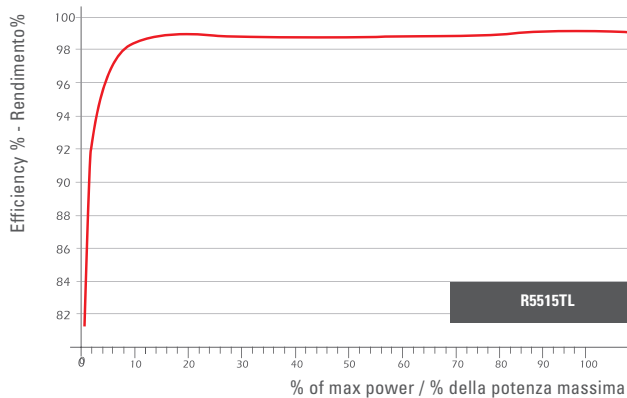
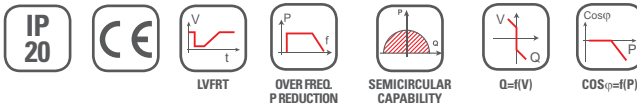
- > High efficiency, up to 99%.
- > Modular inverter (MPS system).
- > Elevato rendimento, fino a 99%.
- > Modularità dell'inverter (MPS system).

## Features

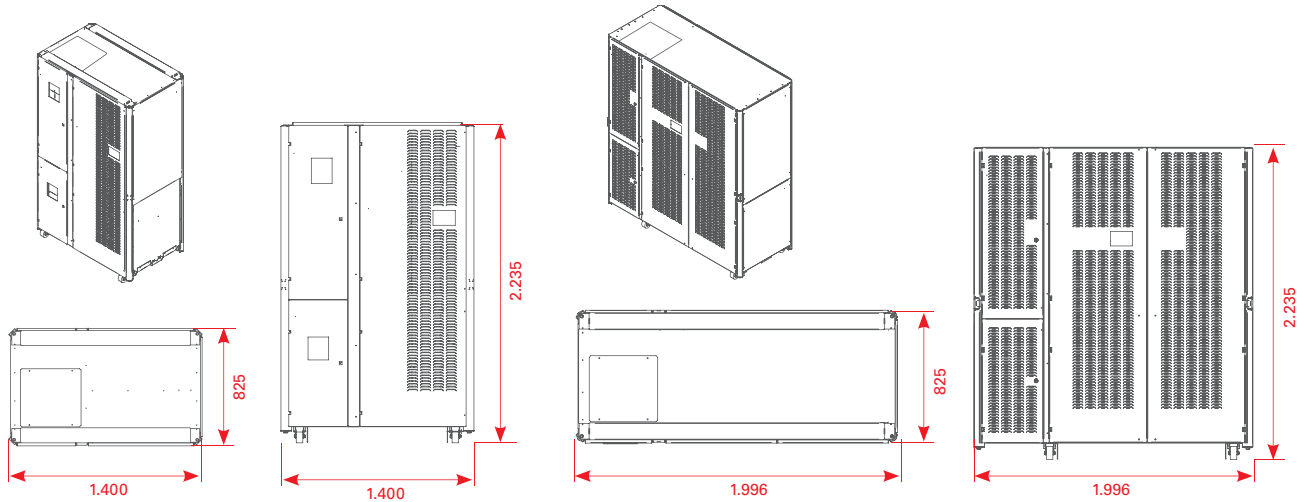
- > Use of a single magnetic component each module.
- > Advance modularity (according to IPCCM algorithm).
- > Continuous monitoring of the system and integrated datalogger.
- > Outbound communication.
- > Monitoring of the photovoltaic plant.
- > Impiego di un singolo componente magnetico per ciascun 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 81
- > Vedi accessori - pagina 81



MV Central Inverter



DC Input - PV Module

	R2215TL	R5515TL	R6615TL
MPPT voltage range( $V_{DC}$ )	675 - 1.320 V	675 - 1.320 V	675 - 1.320 V
Absolute max DC voltage ( $V_{DC}$ )	<b>1.500 V</b>	<b>1.500 V</b>	<b>1.500 V</b>
DC-voltage ripple (%)	<3%	<2%	<2%
Maximum input current ( $A_{DC}$ )	320 A	800 A	960 A
DC control mode	Rapid and efficient MPPT control	Rapid and efficient MPPT control	Rapid and efficient MPPT control
Number of MPPT	1	1	1
Reverse Polarity Protection	•	•	•
DC input connection	Integrated DC Switch	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)	SPD varistor device Class II (Opt. Class I+II)

AC Output grid

	R2215TL	R5515TL	R6615TL
Max Power (kW) (Note 1)	<b>218 kW @ 25°C</b> <b>205 kW @ 50°C</b>	<b>545 kW @ 25°C</b> <b>513 kW @ 50°C</b>	<b>654 kW @ 25°C</b> <b>615 kW @ 50°C</b>
Max Apparent Power $S_{max}$ (kVA)	218 kVA @ 25°C 205 kVA @ 50°C	545 kVA @ 25°C 513 kVA @ 50°C	654 kVA @ 25°C 615 kVA @ 50°C
Maximum Current ( $A_{AC}$ ) (Note 1)	315 A @ 25°C 296 A @ 50°C	787 A @ 25°C 741 A @ 50°C	945 A @ 25°C 889 A @ 50°C
Max unbalance current	< 2%	< 2%	< 2%
AC output Voltage ( $V_{AC}$ )	<b>400V<sub>RMS</sub> ±10%</b>	<b>400V<sub>RMS</sub> ±10%</b>	<b>400V<sub>RMS</sub> ±10%</b>
Nr. Phase	3-phase (L1 – L2 – L3 – PE)	3-phase (L1 – L2 – L3 – PE)	3-phase (L1 – L2 – L3 – PE)
Frequency (Hz)	50/60 Hz	50/60 Hz	50/60 Hz
Aux. power supply ( $V_{AC} - I_{AC}$ )	230V ±10% - 16A (L-N)	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)	230V ±10% - 10A (L-N)
Distortion factor (THDi) (Note 2)	<3%	<3%	<3%
Power Factor (Note 3)	From 0 to 1 inductive or capacitive	From 0 to 1 inductive or capacitive	From 0 to 1 inductive or capacitive
Galvanic insulation	No (transformerless)	No (transformerless)	No (transformerless)
AC input connection	Magnetothermic circuit breaker	Magnetothermic circuit breaker	Magnetothermic circuit breaker

General Data

	R2215TL	R5515TL	R6615TL
Maximum efficiency	<b>98.80%</b>	<b>98.80%</b>	<b>98.80%</b>
European efficiency	98.30%	98.30%	98.30%
Static MPPT efficiency	>99.0%	> 99.9 %	> 99.9 %
Dynamic MPPT efficiency	>99.8%	> 99.8 %	> 99.8 %
Night consumption (W)	<60 W	< 60 W	< 60 W
Weight (kg)	765 kg	1.300 kg	1.330 kg
Protection degree	IP20 (Opt.31)	IP20 (Opt.31)	IP20 (Opt.31)
Cooling	By using fans speed controlled by temperature	By using fans speed controlled by temperature	By using fans speed controlled by temperature
Dimensions (W x D x H)	1.400x825x2.235 mm	1.400x825x2.235 mm	1.996x825x2.235 mm
Noise level (dBA)	< 70 dBA	< 70 dBA	< 70 dBA
Operating temperature (°C) (Note 4)	-10° C +53° C	-10° C +53° C	-10° C +53° C
Storage temperature (°C)	-20° C +60° C	-20° C +60° C	-20° C +60° C
Humidity (Not condensing) (%)	0 ÷ 95%	0 ÷ 95%	0 ÷ 95%
Height above the sea (without derating) (Note 5)	1.500 m	1.500 m	1.500 m
Air Flow	970 m³/h	2.425 m³/h	2.910 m³/h
Overvoltage Category	II	II	II
Color	RAL 9006	RAL 9006	RAL 9006

**Note 1:** Power factor (cosφ)= 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 Smax 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.