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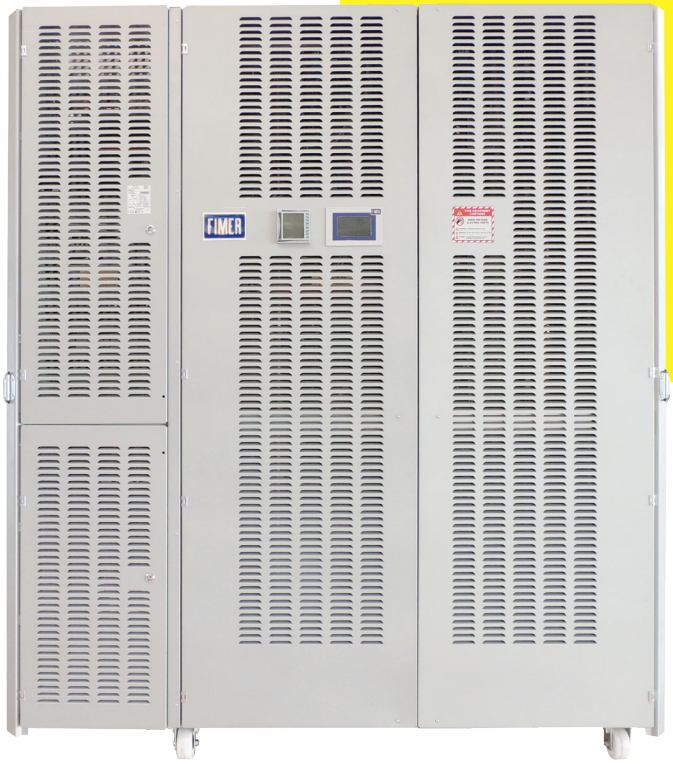

MV Central inverters

R10000TL

1.000kW - 1.000V

Technical data

Type code	R10000TL	
MPPT voltage range (V_{DC})	675 - 1.000 V	
Absolute max DC voltage (V_{DC})	1.100 V	
DC-voltage ripple (%)	<2%	
Maximum input current (A_{DC})	1.600 A	
DC control mode	Rapid and efficient MPPT control	
Number of MPPT	1	
Reverse Polarity Protection	•	
DC input connection	Integrated DC Switch	
Overvoltage Protection	SPD varistor device Class II (Opt. Class I+II)	
AC Output grid		
Max Power (kW) [1]	1.025 kW @ 25°C	1.000 kW @ 50°C
Max Apparent Power Smax (kVA)	1.025 kVA @ 25°C	1.000 kVA @ 50°C
Maximum Current (A_{AC}) [1]	1.575 A @ 25°C	1.480 A @ 50°C
Max unbalance current	< 2%	
AC output Voltage (V_{AC})	400 V_{RMS} ±10%	
Nr. Phase	3-phase (L1 – L2 – L3 – PE)	
Frequency (Hz)	50/60 Hz	
Aux. power supply (V_{AC} - I_{AC})	230V ±10% - 16A (L-N)	
Auxiliary control supply (V_{AC} - I_{AC})	230V ±10% - 10A (L-N)	
Distortion factor (THDi) [2]	<3%	
Power Factor [3]	From 0 to 1 inductive or capacitive	
Galvanic insulation	No (transformerless)	
AC input connection	Magnetothermic circuit breaker	
General Data		
Maximum efficiency	98.80%	
European efficiency	98.30%	
Static MPPT efficiency	> 99.9 %	
Dynamic MPPT efficiency	> 99.8 %	
Night consumption (W)	< 60 W	
Weight (kg)	1.670 kg	
Protection degree	IP20 (Opt.31)	
Cooling	By using fans speed controlled by temperature	
Dimensions (W x D x H)	1.750x825x2.235 mm	
Noise level (dBA)	< 70 dBA	
Operating temperature (°C) [4]	-10° C +53° C	
Storage temperature (°C)	-20° C +60° C	
Humidity (Not condensing) (%)	0 ÷ 95%	
Height above the sea (without derating) [5]	1.500 m	
Air Flow	4.850 m^3/h	
Overvoltage Category	II	
Color	RAL 9006	

1) Power factor (cosφ)= 1 and Vac nominal.
2) THDi is lower than 3% for inverter power greater than 25%.
3) P-Q capability is semicircular with radius equal to Smax for all MPPT range.
4) From 45°C to 53°C derating of power.
5) Above 1.000 m a.s.l. derating of the power of 1% per 100 m.

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.

Remark. Features not specifically listed in the present data sheet are not included in the product

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