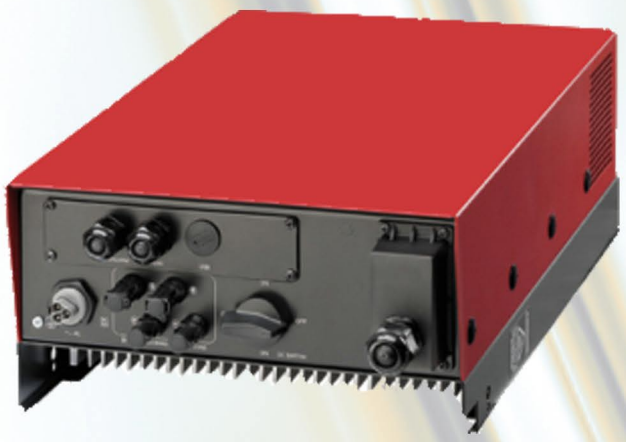
SIRIO EVO1500 - EVO12500

TL Inverter

- Transformerless
- Maximum efficiency up to 96,6%
- IP65 protection degree for outdoor installation
- Control devices and redundancy protection
- Integrated DC switch disconnector
- Night-time consultation feature
- Easy configuration for all Countries
- Built-in datalogger
- Multi-lingual LCD display



General Specifications

Quality power
The Sirio EVO range implements innovative technologies and high quality components, sized with a wide margin compared to normal operation, able to compensate for routine machine maintenance without sacrificing operating flexibility. The innovative digital control of all stages of power ensures a low susceptibility network disconnections, preventing unwanted disconnections in the presence variations or micro-breaks. Sirio EVO inverters integrate protections against voltage surges in input and output and are equipped with control devices and redundancy protection, particularly on the output stage, a further guarantee of operational effectiveness and continuity.

MPPT Devices
Sirio EVOs 1500 are equipped with an innovative MPPT device which ensure that the inverter makes maximum use of photovoltaic generator power. Thanks to fast response times, the inverters make the maximum power generated by photovoltaic panels available at all times and in all in all weather conditions.

Ease of installation and use
The wide input range, thanks to the use of NPC topology, combined with an IP65 degree of protection that allows outside placement of the inverter near the generator, simplify wiring on the DC side, reducing losses and limiting installation costs. The LCD display positioned on the front panel offers simple and intuitive viewing of all the essential information: power, energy produced and any faults, recalling other parameters such as mains voltage, photovoltaic module voltage and mains frequency.

Simple communication
All models in the series have a standard serial RS485 and USB (ModBUS and Ethernet optional) connection, thus making all information locally accessible with the display remotely available. The inverter also has a built-in datalogger that stores instantaneous data with a settable frequency between 5 and 60 minutes, in addition to saving production data on a daily basis for a period of about two years. In addition, by means of a simple setting, a night-time consultation function can be set to allow inverter interrogation through the RS485/422 bus, USB or slot cards during the night when the device is off by default.

Reduced noise
Sirio EVO photovoltaic inverters have been constructed with static electronic devices without the use of rotating components and without cooling fans, significantly reducing device noise and eliminating a component often subject to maintenance or breakdowns.

Internal GFCI (Ground Fault Circuit Interrupter)
According to CEI 64-8/7, art. 712.413.1.1.1.2, section 712, Sirio EVO photovoltaic inverters are equipped with an advanced protection circuit that continuously monitors the leakage current to the ground.
This protection is in fact a Class B differential. In the case of an earth fault, the converter is deactivated and the fault is indicated with a red LED and a relative error code on the front control panel.

Certificate of Factory Inspection
Sirio EVO Inverters meet “Made in EU' criteria as they are designed, manufactured and tested in Italy. Thanks to IMQ certification, Tescom guarantees that the installations of its products can access to the additional incentive bonus, as prescribed by the V° Conto Energia.

Tescom® Solar

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Technical Specifications

MODELS	SIRIO EVO 1500	SIRIO EVO 2000	SIRIO EVO 3000	SIRIO EVO 4000	SIRIO EVO 5000	SIRIO EVO 6000	SIRIO EVO 10000	SIRIO EVO 12500
Rated power alternating current	1500W	2000 W	3000W	4000W	5000W	6000W	10000W	12500W
Maximum power alternating current	1500W	2000 W	3000W	4000W	5000W	6000W	10000W	12500W
INPUT								
Maximum direct voltage in an open circuit	800Vcc							
MPPT Operating range	100÷720Vcc							
MPPT Full Rating Range	170÷720Vcc							
Working range	100÷800Vcc							
Maximum imput current	10Acc							
Voltage during system startup	90Vcc							
Initial feeding voltage	130Vcc							
Shutdown voltage	60Vcc							
Ripple voltage	<3%							
Input number	2							
MPPT number	1							
D.C. connectors	MC4 type or compatible							
OUTPUT								
Operating voltage	230Vca							
Operating interval	184÷276Vca							
Maximum power interval	200÷276Vca							
Frequency interval	47,5÷51,5Hz							
Settable frequency interval	47÷52Hz							
Nominal current	6,5Aca							
Maximum current	7,5Aca							
Fault level contribution	7,5Aca							
DC current injection (max.)	<32mA							
Current Harmonic Distorsion (THDi)	<4%							
Power factor	from 0,9 ind. to 0,9 cap.							
Galvanic separation	No							
A.C. connectors	Wieland RST25 connector							
SYSTEM								
Maximum efficiency	96,65%							
European efficiency	>93,3%							
Stand-by consumption	~9W							
Night consumption	1W (4W if night-time consultation is active)							
Internal protection	Protection DC/AC side (RCD type B in accordance with IEC 60755), overvoltage protection (OVR type 3)							
Insulation operating protection	According to the local regulations							
Heat dissipation	Convection							
Storage temperature	-20°C÷70°C							
Humidity	4÷100% condensing							
CHARACTERISTICS								
Acoustic noise	<35dBA							
Protection level	IP65							
Colour	RAL 3020							
Weight	24Kg							
Dimensions	325x168,5x590mm							
COMMUNICATION								
Communication interface	RS485, USB and dry contact supplied as standard, ModBUS and Ethernet optional (slot version)							
Display	2-row LCD, 16 characters							
CERTIFICATES AND APPROVALS								
EMC	Directive 2004/108/CE; EN61000-6-3: 2007; EN61000-6-2: 2005							
Directives	Directive 2006/95/CE; EN62109							
Grid monitoring	CEI 0-21, CEI 0-16, A70, VDE AR-N4105, VDE 0126-1-1, G83/1, Real Decreto 1663-2000, PO12.3							

Reliable Power