



CONERGY

Standalone inverters | Specifications

Conergy MIC 350-1500

The Conergy MIC series wins out for proven maximum efficiency, electronic safety features, flexible application and extremely robust construction. It therefore guarantees efficient, safe and long lasting operation of your Off-grid system.

Standalone inverters convert direct voltage into an alternating voltage. They are used anywhere where there is no connection to the national grid available or a photovoltaic power supply is preferred for economical or environmental reasons. Thanks to the use of ultramodern electronics, the latest generation of standalone inverters of the Conergy MIC series ensures high output and outstanding reliability.

Typical areas of application

The Conergy MIC series is available in four power classes: 350, 700, 1,000 and 1,500W. It is used in the following areas in particular:

- | Rural electrification
- | Small residences and holiday homes
- | Mobile application on yachts, caravans or commercial vehicles
- | Stationary industrial premises (e.g. radio and measuring stations or telecommunications installations)

Conergy MIC standalone inverters convert DC battery voltage into a stabilised alternating voltage with quartz precision on which even sensitive and demanding consumers can function. The output voltage is a purely sinusoidal voltage that is maintained with utmost precision in all load conditions. Operation of equipment could not be easier and the user is informed of the operating status of the equipment by LEDs. An audible information signal indicates special events.

Electronic protection

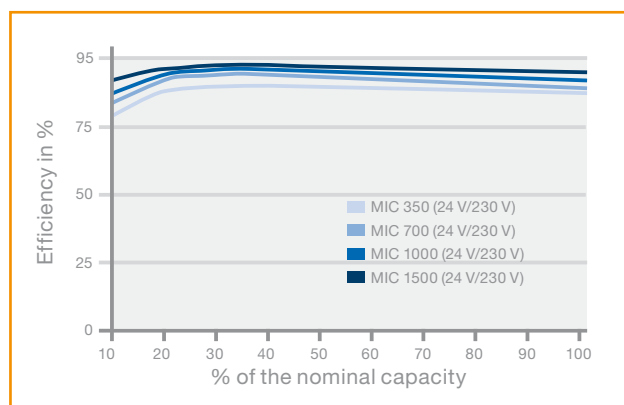
Electronic safety features protect the inverter from short circuit, overload and overexcess temperatures as well as undervoltages and overvoltages. Thanks to their special equipment protection, the inverters of the Conergy MIC series are extremely long lasting. They are cooled by a high-quality fan with load and temperature-dependent control.



Greatest flexibility

The frequency of the Conergy MIC series is adjustable to 50 or 60 Hz depending on the consumers to be supplied. The inverters are available with input voltages of 12 or 24 V and with output voltages of 110 and 230V. Thanks to their robust constructions, the devices are well suited for mobile applications. The operation of consumers with high inductive and capacitive loads is also just as straightforward.

Tested efficiency



Conergy MIC standalone inverters are equipped with a high-tech microprocessor. Tested, innovative components and control routines make our MIC inverters significantly more efficient than the inverters of the same power class offered by other suppliers. With their sophisticated level of technology, the inverters are also much lighter than many of the others on the market. This technology additionally guarantees a reliable isolation of the DC and AC side.

PHOTOVOLTAIC



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PHOTOVOLTAIC

	Conergy MIC 350		Conergy MIC 700		Conergy MIC 1000		Conergy MIC 1500	
Input voltage	12 V	24 V	12 V	24 V	12 V	24 V	12 V	24 V
230 V model								
Output voltage +/- 3 %	230 V	230 V	230 V	230 V	230 V	230 V	230 V	230 V
Continuous output up to 40 °C	350 VA	350 VA	700 VA	700 VA	1,000 VA	1,000 VA	1,500 VA	1,500 VA
Maximum output (180 s)	400 VA	400 VA	800 VA	800 VA	1,150 VA	1,150 VA	1,725 VA	1,725 VA
Peak output (500 ms)	700 VA	700 VA	1,400 VA	1,400 VA	2,000 VA	2,000 VA	3,000 VA	3,000 VA
Efficiency at 50 % of nominal capacity	90 %	91 %	91.15 %	93.20 %	92.80 %	93.35 %	92.80 %	93.50 %
Efficiency at 100 % of nominal capacity	86.87 %	89 %	87.20 %	89.20 %	89.60 %	90.40 %	89.60 %	91.60 %
Power consumption under zero load	9.5 W	9.5 W	13 W	13 W	13 W	13 W	13 W	13 W
Power consumption in standby	no standby function		4.5 W	4.5 W	4.5 W	4.5 W	4.5 W	4.5 W
Socket type	European socket							
110 V model								
Output voltage +/- 3 %	110 V	110 V	110 V	110 V	110 V	110 V	110 V	110 V
Continuous output up to 40 °C	350 VA	350 VA	700 VA	700 VA	1,000 VA	1,000 VA	1,500 VA	1,500 VA
Maximum output (180 s)	400 VA	400 VA	800 VA	800 VA	1,150 VA	1,150 VA	1,725 VA	1,725 VA
Peak output (< 1 s)	700 VA	700 VA	1,200 VA	1,200 VA	2,000 VA	2,000 VA	3,000 VA	3,000 VA
Efficiency at 50 % of nominal capacity	88 %	88.50 %	89.10 %	91.10 %	89.35 %	91.05 %	89.60 %	91 %
Efficiency at 100 % of nominal capacity	84.80 %	86 %	85 %	87 %	84.95 %	88 %	84.90 %	89 %
Power consumption under zero load	9.5 W	9.5 W	13 W	13 W	13 W	13 W	13 W	13 W
Power consumption in standby	no standby function		4.5 W	4.5 W	4.5 W	4.5 W	4.5 W	4.5 W
Socket type	US socket, type NEMA 5-15R							
General data								
Output frequency +/- 0.05 %	50 or 60 Hz adjustable at the unit							
Form of output voltage	Pure sinusoid with < 2.5 THD							
Power factor (cos φ)	-1 to +1							
Input voltage range (min.-max.)	10.5-15 V	21.0-30 V	10.5-15 V	21.0-30 V	10.5-15 V	21.0-30 V	10.5-15 V	21.0-30 V
Maximum input current	45 A	25 A	90 A	45 A	130 A	65 A	200 A	100 A
Operating temperature	0 °C to +40 °C							
Storage temperature	-30 °C to +70 °C							
Humidity	0 % to 95 % non-condensing							
Protection type	IP 20							
DC connection	Connection leads incl.		Screw clamps		Screw clamps		Screw clamps	
Dimensions (L x H x W)	185 x 60 x 147 mm		295 x 72x 180 mm		383 x 88 x 182 mm		415 x 88 x 191 mm	
Weight	1.4 kg		2.7 kg		4.0 kg		4.8 kg	
Standards	EN55022/EN55024/EN61000-3-2/EN61000-3-3/E13/CE				UL458		UL458	

Available from:

MIC350-1500-TD-ENG-0702