

## Stand-Alone Inverters KI Series



# Top performance even in difficult situations.

The stand-alone sine-wave inverters of the KI series.

The future belongs to decentralised power generation, especially in areas without a reliable public power grid. Stand-alone inverters allow local power grids to be formed in which any kind of AC consumer can be operated. The requirements placed on stand-alone inverters are high: conversion efficiency, high overload ability, tolerance to fluctuations in battery voltage and an economical operating state. None of this is a problem for our KI series stand-alone inverters! They supply power independently under extreme conditions in areas remote from the grid.

The KI series consists of galvanically isolated units with MOSFET semiconductors. They convert the DC voltage (e.g. 12 V, 24 V or 48 V) of a battery into AC voltage with 230 V / 50 Hz or 100 V / 60 Hz. You can even run sensitive electronics like energy-saving light bulbs or laptops with them. Using our stand-alone inverter is often more economical than purchasing low performance 12 V DC units. Caution: solutions with "modified sinusoidal voltage" (trapezoidal or triangle form) or square wave voltage can even damage sensitive appliances.

Electrical data	KI 250	KI 1000	KI 2000
<b>Input variables</b>			
Input voltage	12 V	12 V / 24 V	24 V / 48 V
Over and undervoltage shutdown	-15 % ... +35 %	-15 % ... +35 %	-15 % ... +35 %
Max. input voltage	+50 %	+50 %	+50 %
<b>Output variables</b>			
Rated power	0.2 kW / kVA*	0.8 kW / kVA*	1.6 kW / kVA*
Rated power 30 min	0.25 kW / kVA*	1.0 kW / kVA*	2.0 kW / kVA*
Rated power 5 min	0.36 kW / kVA*	1.3 kW / kVA*	2.88 kW / kVA*
Peak power 5 sec	0.46 kW / kVA*	2.2 kW / kVA*	4.8 kW / kVA*
Current limit	electronically regulated	electronically regulated	electronically regulated
Output voltage	230 V / 115 V**	230 V / 115 V**	230 V / 115 V**
Type of output voltage	Sinusoidal voltage, galvanically isolated between input and output		
Safety shutdown	0.7 kW	2.8 kW	5.6 kW
Rated frequency	50 Hz / 60 Hz**	50 Hz / 60 Hz**	50 Hz / 60 Hz**
cos phi	every value is allowed	every value is allowed	every value is allowed
Distortion factor at rated power	< 3 %	< 3 %	< 3 %
<b>General electrical data</b>			
Max. efficiency	91 %	93 %	94 %
Rated efficiency	80 %	88 %	91 %
Internal consumption: Standby	0.5 W	1.0 W	1.0 W
Internal consumption: No-load	2.0 W	10 W	20 W
Load-dependent starting and shutdown	approx. 15 VA	> 10 VA adjustable	> 10 VA adjustable
Standards	EN60950, EN55014, EN61000-6-3, EN61000-3-2, EN55022		
<b>Mechanical data</b>			
Displays	LED	LCD	LCD
Interfaces (remote starting, status messages)	-	optional	optional
Connections	cable	cable	cable
Ambient temperature	-15 °C ... +60 °C***	-15 °C ... +60 °C***	-15 °C ... +60 °C***
Cooling	temperature-controlled fan	temperature-controlled fan	temperature-controlled fan
Protection class	IP20	IP20	IP20
H x W x D	130 x 88 x 216 mm	274 x 125 x 354 mm	274 x 125 x 454 mm
Weight	3.3 kg	15 kg	23 kg
Integrated charge regulator / charge current	optional / 15 A	optional / 30 A	optional / 30 A

\* 30 °C / \*\* different inverter types / \*\*\* Power rating at high ambient temperatures