



KINERGIER PRO

CK4.0S / CK6.0S / CK8.0S



Bi-directional Inverter

4 KW, 6KW, 8KW

KinerGier Pro is the new generation bi-directional inverter designed for various types of off grid systems including AC coupling system, DC coupling system and generator hybrid system. It can provide UPS class switching speed and with capability to support parallel as well as composing three phase system.

KinerGier Pro delivers high reliability, performance and industry leading efficiency for mission critical application. Its distinguishing surge capability makes it capable to power most demanding appliances, such as air conditioner, water pump, washing machine, freezer etc.

With the function of AEA (automatic energy allocation), it can be used to work with a limited AC source such as generator or limited grid. KinerGier Pro can automatically adjust its charging current avoiding grid or generator to be overloaded. In case of temporary peak power appears, it can work as the supplement source to generator or grid.

- UPS class transfer speed, < 2ms
- Support AC coupling system, DC coupling system and solar hybrid systems
- Parallel and three phase capability, up to 9 units can operate in parallel
- Can be used for self consumption system support feed back to grid
- AEA function (power sharing and power assist)
- Outstanding overload capability for all kinds of inductive loads
- Harmonic distortion < 2%
- High efficiency up to 96%
- Extremely low status consumption power
- TBB premium II battery charging management
- With built in battery SOC estimation
- Two programmable AC outputs for smart load management
- Built in AGS
- Fully programmable by APP
- Remote monitoring and control available



Kinergy

Data logging stick



BGK



Model No.	CK3.0M	CK5.0M	CK4.0S	CK6.0S	CK8.0S
Power assist	Yes				
Feed - in to grid	Yes				
AC input	input voltage range : 145 ~ 265Vac, input frequency :42Hz ~65Hz				
AC input current max (transfer switch) (A)	50				

Inverter

Nominal battery voltage (VDC)	24		48		
Input voltage range (VDC)	21 ~ 32		42 ~ 60		
Output	output voltage: 220 ~ 240 VAC ± 2%, frequency: 50 / 60 Hz ± 0.05%				
Harmonic distortion	< 2%				
Load power factor	1.0				
Peak power (30min) (W)	3000	5000	4000	6000	8000
Cont. output power @25°C (W)	2500	4500	3000	4500	6000
Peak power (5 sec) (W)	5000	8000	6000	9000	12000
Cont. output power @40°C (W)	2000	3200	2400	3600	4800
Maximum efficiency	93%		96%		
Zero load power (W)	18	23	17	20	26

Charger

Charger voltage 'absorption' (VDC)	28.8		57.6		
Charger voltage 'float' (VDC)	27.6		55.2		
Battery types	AGM / GEL / OPZV / Li-ion				
AC charge current (A)	100	150	50	75	100
Temperature compensation	Yes				

General Data

Main output (AC Out1) current (A)	50				
Auxiliary output (AC Out2) current (A)	20				
Transfer time	< 2ms (< 15ms in weakgrid mode)				
Programmable relay	2x				
Protection	a) output short circuit, b) over load, c) battery voltage too high d) battery voltage too low e) temperature too high, f) input voltage out of range, g) input voltage ripple too high				
CAN Bus communication port	for parallel and three phase operation, remote monitoring and system integration				
General purpose com. Port	RS485, Bluetooth, GPRS, WLAN				
Operating temperature range	-20°C ~ 60°C				
Relative humidity in operation	95% without condensation				
Altitude	2000				

Mechanical Data

Dimension (mm)	530*285*185				
Net weight (KG)	32	36	30	35	40
Cooling	forced fan				
Protection category	IP20				

Standard

Safety	EN60950-1,EN-IEC 62109-1				
EMC	EN61000-6-2,EN61000-6-4				