

KINERGIER PRO

CK3.0M / CK5.0M / CK3.0S /
CK4.0S / CK6.0S / CK8.0S



Bi-directional Inverter

3KW, 4 KW, 5KW, 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	CK3.0S	CK4.0S	CK6.0S	CK8.0S
Power assist	Yes					
Feed - in to grid	Yes					
AC input	Input voltage range:145~265 VAC, Input frequency:42~65Hz					
AC input current max (transfer switch) (A)	32	50	32	50		

Inverter

Nominal battery voltage (V)	24			48		
Input voltage range (V)	21 ~ 34	21 ~ 32	42 ~ 66	42 ~ 60		
Output	Output voltage: 220~240 VAC ± 2%, Frequency: 50Hz/60Hz ± 0.05%					
Harmonic distortion	< 2%					
Load power factor	1.0					
Cont. output power @25°C (W)	2400	4500	2400	3200	4800	6500
Peak power (30min) (W)	3000	5000	3000	4000	6000	8000
Peak power (5 sec) (W)	6000	9000	6000	6400	9600	13000
Cont. output power @40°C (W)	2200	3600	2200	2800	4200	5600
Maximum efficiency	93%		95%	96%		
Zero load power (W)	14	23	14	17	20	26

Charger

Charger voltage 'absorption' (V)	28.8			57.6		
Charger voltage 'float' (V)	27.6			55.2		
Battery types	AGM / GEL / OPZV / Lead-Carbon / Li-ion / Flooded					
Max AC charge current (A)	80	150	40	55	80	110
Temperature compensation	Yes					

General Data

Main output (AC Out1) current (A)	32	50	32	50		
Auxiliary output (AC Out2) current (A)	32					
Transfer time	< 2ms (< 15ms in Weak Grid Mode)					
Remote on-off	Yes					
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	CAN, RS485, Bluetooth, GPRS, WLAN					
Operating temperature range	-20°C ~ 65°C					
Relative humidity in operation	95% without condensation					
Altitude (m)	2000					

Mechanical Data

Dimension (mm)	510*276*145	530*285*185	510*276*145	530*285*185		
Net weight (KG)	20	36	20	30	35	40
Cooling	Forced fan					
Protection category	IP21	IP20	IP21	IP20		

Standard

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