

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.	CK4.0S	CK6.0S	CK8.0S
AEA / Power Assist	Yes		
AC inputs	voltage range : 165 ~ 265Vac, Frequency :45Hz ~65Hz		

Inverter

Nominal battery voltage (VDC)	48		
Input voltage range (VDC)	42 ~ 60		
Output	Voltage: 220 ~ 240 VAC \pm 2%, Frequency: 50 ~ 60 Hz \pm 0.05%		
Harmonic distortion	< 2%		
Power 30 mins @25°C (W)	4000	6000	8000
Cont. output power @25°C (W)	3000	4500	6000
Peak power (5 sec) (W)	6000	9000	12000
Cont. output power @40°C (W)	2400	3600	4800
Surge	300%		
Max efficiency	95%	95%	96%
Zero load power (W)	17	20	26

Charger

Absorption voltage (VDC)	57.6		
Float charge voltage (VDC)	55.2		
Battery types	AGM / GEL / OPZV / Li-ion		
Max battery charge current (A)	50	75	100
Temperature compensation	Yes		

General Data

Transfer time	< 2ms (< 15ms in weakgrid mode)		
Remote on-off	Yes		
Programmable relay	2x		
Protection	Output short circuit		
	Overload		
	Battery voltage too high / too low		
	Temperature too high		
	Input voltage out of range / 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		

Mechanical Data

Dimension (mm)	530*285*185	530*285*185	530*285*185
Net weight (KGs)	28	35	40
Cooling	Forced fan		
Protection category	IP20		

Standard

Safety	EN60950-1,EN-IEC 62109-1		
EMC	EN61000-6-1,EN61000-6-3		