

Inverter Charger

KINERGIER PRO

2KW / 3KW / 4KW / 5KW / 6KW / 8KW 230Vac

Paralleled to 24KW single phase; 72KW three phase





Kinergier Pro is a new generation inverter charger, combined with an inverter, battery charger, and transfer switch into one compact package, allowed to expand its system capacity through parallel and three phase operation up to 9 units. Featuring Oms UPS transfer time, it is an ideal inverter for powering various mission-critical loads. It is designed for various types of off grid systems including DC Coupled PV system, AC Coupled PV system, or even a combination of both, to maximize the use of PV energy.

Its high surge capability makes it capable to deal with the initial currents of the high-demanding appliances, such as air conditioner, water pump, washing machine, freezer etc. Thanks to its power assist and power control function, it works well with the majority of poor generators. Kinergier Pro can automatically adjust its charging current by taking loads into account to protect the generator from overload. Once the temporary peak power appears, it can also discharge the battery to supply power to compensate the insufficient part of the generator.

Support AC Coupled system, DC Coupling system and the combination of both

- High surge capacity for starting up mostly demanding appliances
- Power assist function enables limited AC to power heavy loads
- Ultra-fast 0-2ms transfer time to protect mission-critical loads like server and ATM
- Outstanding overload capability for powering various inductive loads
- Controlled by digital signal processors
- Support parallel and three phase operation up to 9 units
- Compatible with mainstream lithium battery brands
- AGS function to automatically start and stop the generator

- Two AC outputs for load management in the event of battery operation
- Harmonic distortion<2%; High efficiency up to 96%
- Extremely low status consumption power
- TBB premium II battery charging management
- Built-in battery SOC estimation
- Two programmable AC outputs for smart load management
- Support automatically start or stop the generator (AGS Function) according to load power, battery voltage/SOC, time period
- Fully programmable
- Remote monitoring and control via NOVA Web & App

Model No :	CK4.0M	CK5.0M	CK4.0S	CK5.0S	CK6.0S	CK8.0S
Product topology	Transformer based					
Power assist		Yes				
Feed-in to grid	Yes					
AC input voltage range (VAC)	175~265					
AC input Frequency range (Hz)	45~65					
AC input Current (transfer switch) (A)	50					

Inverter

Nominal battery voltage (VDC)	2	24		48		
Input voltage range (VDC)	21	~34	42~68			
AC output voltage(VAC)			220/230/	240 ± 2%		
AC output Frequency(Hz)			50/60	± 0.1%		
Harmonic distortion		< 2%				
Load Power factor	1.0					
Cont. output power at 25°C (VA)	4000	5000	4000	5000	6000	8000
Peak power (30min) (W)	4000	5000	4000	5000	6000	8000
Cont. output power at 25°C (W)	3600	4500	3200	4000	4800	6500
Peak power (10 sec) (W)	8000	10000	8000	10000	12000	16000
Cont. output power at 40°C (W)	2800	3600	2800	3700	4200	5600
Surge	300%					
Maximum efficiency	94	4%		96	6%	
Zero load power (W)	18	23	17	19	20	26

Charger

Charge voltage 'absorption' (VDC)	28	3.8	57.6			
Charge voltage 'float' (VDC)	27	7.6	55.2			
Battery types	AGM / GEL / OPZV / Lead-Carbon / Li-ion / Flooded / Traction / TBB SUPER-L					ER-L
Max AC charge current (A)	120 150 55 70 80					110
Temperature compensation	Yes				-	

General Data

Main Output (AC Out1) Current (A)	50				
Auxiliary Output (AC Out2) Current (A)	32				
Transfer time	0ms (< 15ms in Weak AC source Mode)				
Remote on-off	Yes				
Programmable relay	2x				
Protection	a) output short circuit, b) overload, 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, h) Fan b				
CAN Bus communication port	For parallel and three phase operation, remote monitoring and system integration				
General purpose com. Port	RS485 (GPRS, WLAN optional with kinergy)				
Operating temperature range	-20°C~65°C				
Relative humidity in operation	95% without condensation				
Altitude (m)	2000				

Mechanical Data

Dimension (mm) (max)		530x285x185				
Net Weight (kg)	33	36	30	33	35	40
Cooling		Forced fan				
Protection category		IP20				

Standard

Safety	EN-IEC 62477-1	
EMC	EN61000-6-2, EN61000-6-4, EN61000-3-11, EN61000-3-12	

Model No .	CK-II 2.0M	CK-II 3.0M	CK-II 2.0S	CK-II 3.0S		
Product topology	Transformer based					
Power assist	Yes					
Feed-in to grid	Yes					
AC input voltage range (VAC)	175~265					
AC input Frequency range (Hz)	45~65					
AC input Current (transfer switch) (A)	32					

Inverter

Nominal battery voltage (VDC)	2	24	48	48
Input voltage range (VDC)		21~34	42	~68
AC output voltage(VAC)		220/230/2	240 ± 2%	
AC output Frequency(Hz)		50/60 =	± 0.1%	
Harmonic distortion			< 2%	
Load Power factor	1.0			
Cont. output power at 25°C (VA)	2000	3000	2000	3000
Peak power (30min) (W)	2000	3000	2000	3000
Cont. output power at 25°C (W)	1600	2500	1600	2500
Peak power (10 sec) (W)	4000	6000	4000	6000
Cont. output power at 40°C (W)	1500	2200	1500	2200
Surge	300%			
Maximum efficiency	94% 95%			%
Zero load power (W)	11	14	11	14

Charger

Charge voltage 'absorption' (VDC)	28.8		57.6	
Charge voltage 'float' (VDC)	27.0	6	55.2	
Battery types	AGM / GEL / OPZV / Lead-Carbon / Li-ion / Flooded / Traction / TBB SUPER-L			BB SUPER-L
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CAN Bus communication port	For parallel and three phase operation, remote monitoring and system integration					
General purpose com. Port	RS485 (GPRS,WLAN optional with kinergy)					
Operating temperature range	-20°C~65°C					
Relative humidity in operation	95% without condensation					
Altitude (m)	2000					

Mechanical Data

Dimension (mm) (max)	499x272x144					
Net Weight (kg)	16	19	16	19		
Cooling		Forced fan				
Protection category	IP21					

Standard

Safety	EN-IEC 62477-1
EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-3-11, EN61000-3-12

EASY POWER, EASY LIFE

