



INV028 | INV045 | INV029 | INV021 | INV022 | INV008

KINERGIER PRO

CK-II

2.0M 3.0M 3.0S

CK

4.0S 6.0S 8.0S

OVERVIEW

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

Kinergier Pro delivers high-reliability performance and industry-leading efficiency for mission-critical applications. Its distinguishing surge capability makes it capable to power the most demanding appliances such as air conditioners, water pumps, washing machines, freezers etc.

With the functioning of power assist and power control, it can be used to work with a limited AC source such as the generator or limited grid. Kinergier Pro can automatically adjust its charging current avoiding bread or generator to be overloaded in case of temporary peak power appear, it can work as a supplement source to the generator or grid.

FEATURES & BENEFITS

- Typical 0ms UPS class transfer speed, max<2ms
- Support AC Coupling system, DC Coupling system and Solar Hybrid system
- Parallel and three-phase capability, up to 9 units can operate in parallel
- Can be used for self-consumption system support feedback to the grid
- Power assist & power control
- Outstanding overload capability for all kinds of inductive load
- 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
- Remote monitoring and control

BI-DIRECTIONAL INVERTER

KINERGIER PRO	CK-II 2.0M	CK-II 3.0M	CK-II 3.0S	CK 4.0S	CK 6.0S	CK 8.0S
Product code	INV028	INV045	INV029	INV021	INV022	INV008
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			50		
INVERTER						
Nominal battery voltage (VDC)	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)	2000	3000	3000	4000	6000	8000
Cont. output power at 25°C (W)	1600	2500	2500	3200	4800	6500
Peak power (30 min) (W)	2000	3000	3000	4000	6000	8000
Peak power (10 sec) (W)	4000	6000	6000	8000	12000	16000
Cont. output power at 40°C (W)	1500	2200	2200	2800	4200	5600
Maximum efficiency	94%		95%		96%	
Zero load power (W)	11	14		17	20	26
CHARGER						
Charge voltage 'absorption' (VDC)	28.8			57.6		
Charge voltage 'float' (VDC)	27.6			55.2		
Battery types	AGM / GEL / OPzV / Lead-Carbon / Flooded / Traction / Lithium					
Max AC charge current (A)	50	80	40	55	80	110
Temperature compensation	Yes					
GENERAL DATA						
Main Output (AC Out1) Current (A)	32			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 block					
ComSync Communication Port	For parallel and three phase operation					
ComMON Communication Port	For remote monitoring and system integration					
Operating temperature range	-20°C to 60°C					
Relative humidity in operation	95% without condensation					
Altitude (m)	2000					
MECHANICAL DATA						
Dimension (mm) (max)	499*272*144			530*285*185		
Net Weight (kg)	16	19		30	35	40
Cooling	Forced fan					
Protection index	IP20					
STANDARDS						
Safety	EN-IEC 62477-1, EN-IEC 62109-1, EN-IEC 62109-2, EN-IEC 62040-1					
EMC	EN-IEC 61000-6-1, EN-IEC 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-3-11, EN 61000-3-12					
Grid Regulation	VDE-AR-N 4105*, NRS 097-2-1:2017*, AS/NZS 4777.2:2020*, NTS 2.1 (A)*, RD 1699*					
Warranty	4 Years + 1 Year*					

*Add 1 year to your warranty when you link your product to the NOVA App