



ENERGIER APOLLO



ALL-IN-ONE Inverter

PWM version 1.2 KW - 1.7 KW

MPPT version 2 KW- 4 KW

Energier Apollo is a powerful inverter integrated multiple functions, including a high performance true sine wave inverter, a powerful battery charger, a MPPT or PWM charge controller, a high speed automatic transfer switch and two outputs for load management.

Energier Apollo inverter can be used in multiple applications. With a simple setting, you can compose a power backup or solar offgrid system. Its distinguishing surge capability makes it capable to power most demanding appliances, such as fridge, freezer, water pump and air-conditioner etc.

Energier Apollo has some distinguished features designed especially for African, Middle East and South East Asian countries where the grid is not stable and low voltage is frequently encountered. Energier Apollo can maximize the usage of grid and automatically adjust its charging in accordance with the setting.

- All in one unit integrating multiple functions
- Can be applied for solar hybrid and power backup system
- High efficiency up to 95%
- Extremely low status consumption power
- Standby level adjustable
- High performance designed for all kinds of home appliances
- TBB premium II multi stage charging algorithm with built in automatic temperature & voltage compensation charging
- Equalization charging program is available for flooded and OPZS Battery
- Lithium Battery charging is available
- Multiple working mode can be configured
- Designed for tropical region
- Designed to work with weak grid
- GEN mode makes it compatible with cheap generators in the market
- With built in AGS and power sharing feature
- Fully programmable with Rapconfig software
- Built-in AC input and output MCB (for MPPT version only)



Kinergy

Data logging stick



BGK



Model No.	CH1350L	CH2040M	CH2.0M	CH2.0S	CH3.0S	CH4.0S
LCD display	No	No	Yes			
AC IN MCB	No	No	D25	D25	D32	D40
AC OUT MCB	No	No	C16	C16	C25	C32

Inverter

Nominal battery voltage (VDC)	12	24		48		
Nominal input voltage range (VDC)	11.3 ~ 16	22.6 ~ 32	18 ~ 34	40 ~ 62.8		
Cont. power @25°C (VA)	1300	2000	2000	2000	3000	4000
Power 30mins @25°C (W)	1200	1700	2000	2000	3000	4000
Cont. power @25°C (W)	1100	1300	1800	1800	2700	3600
Cont. power @40°C (W)	1000	1200	1600	1600	2400	3200
Output voltage	230Vac± 2% , 220Vac~240Vac Settable, 50Hz ± 0.05%, Settable					
Total harmonic distortion	< 3%					
Efficiency (MAX)	90.5%	93%	93%	95%		
Zero load power (W)	11	13	14	14	17	20
Zero load power (power save mode) (W)	2.5	3	3.5	3.5	4.5	5
AC input range (VAC)	UPS mode	184 ~ 264				
	Weakgrid & GEN	168 ~ 276				
AC input frequency range (Hz)	50Hz: 40Hz-55Hz; 60Hz: 55Hz-65Hz					
Typical transfer time	< 20ms (typical 10ms)					
Transfer switch (A)	16			31		

AC Charger & Solar Charger

Solar charger type		PWM		MPPT			
Nominal output voltage (VDC)	12	24		48			
Max PV open circuit voltage (Voc) (VDC)	25	50	100	150			
Recommended PV (W)	640	1520	1440	1920	2880	3840	
MPPT range (VDC)	N/A	N/A	32 ~ 100	64 ~ 145			
Max PV short circuit current (A)	N/A	N/A	35				
Rated charging current - adjustable (A)	AC Charger	50	40	40	20	30	40
	Solar Charger	50	50	60	35	50	60
Max charging current (A)	100	90	100	55	80	100	
MPPT efficiency	N/A	N/A	99.5%				
Solar Charger Maximum efficiency	N/A	N/A	98%				
Battery types	AGM/GEL/LFP/FLOODED						
Temperature compensation	- 4mV / °C / cell, settable						

Other Data

Protection	a)shortcut, b)over load ,c) over temperature, d) input voltage out of range ,e) battery low voltage disconnect ,f) battery high voltage protection ,g)fan lock					
Auxiliary output	X1, programmable			X2, programmable		
Operating ambient temperature range	-20°C ~ 60°C					
Storage temperature range	-40°C ~ 85°C					

Mechanical Data

Dimension (mm) (max)	470x233x95			515x275x145		
Net weight (KGs)	11.6	12	20	20	22	25
Cooling	forced fan					
Protection	IP20			IP21		

Standard

Safety	EN60950-1,EN62109-1/-2					
EMC	EN61000-6-4,EN61000-6-2,EN61000-3-3,EN61000-3-2					