

Raython Model 1 & Model 2

All-in-one Integrated System



- The Raython Model 1 and Model 2 systems are all-in-one standalone solar power systems. They are ideal solutions designed for holiday houses or single-family houses that have no access to the grid power and the users often use generators as their power supply. Featuring low pollution and low fuel consumption, they are also perfect solutions for people who pursue a more sustainable lifestyle.
- The Raython Model 1 and Model 2 systems are expertly assembled, tested and shipped as a complete system respectively, integrating a solar hybrid inverter (Model 1) or an inverter charger with an MPPT solar charge controller (Model 2), lithium battery modules, E4 LCD Monitor, and AC, DC and PV power distribution into one system. On arrival, Raython Model 1 and Model 2 systems are ready to install and the all-in-one design makes them easy to install and saves your precious time.
- Our Raython Model 1 and Model 2 Solar Systems are designed for applications with a daily power use from 10.08kWh-20.16kWh, to meet your different power need.





Raython Model 1 & Model 2

RAYTHON
MODEL 1

5KW | 10.08kWh~20.16kWh

RAYTHON
MODEL 2

8KW | 10.08kWh~20.16kWh

Raython Model 2

Off-grid System

RAYTHON
MODEL 2

E4 LCD Monitor

For system local monitoring and control

Lithium Battery Module

48V 210Ah-420Ah

10.08kWh~20.16kWh



**MPPT Solar Charge Controller
Solar Mate**

150V 120A/ 250V 100A

**Inverter Charger
Kinergier Pro 8.0S**

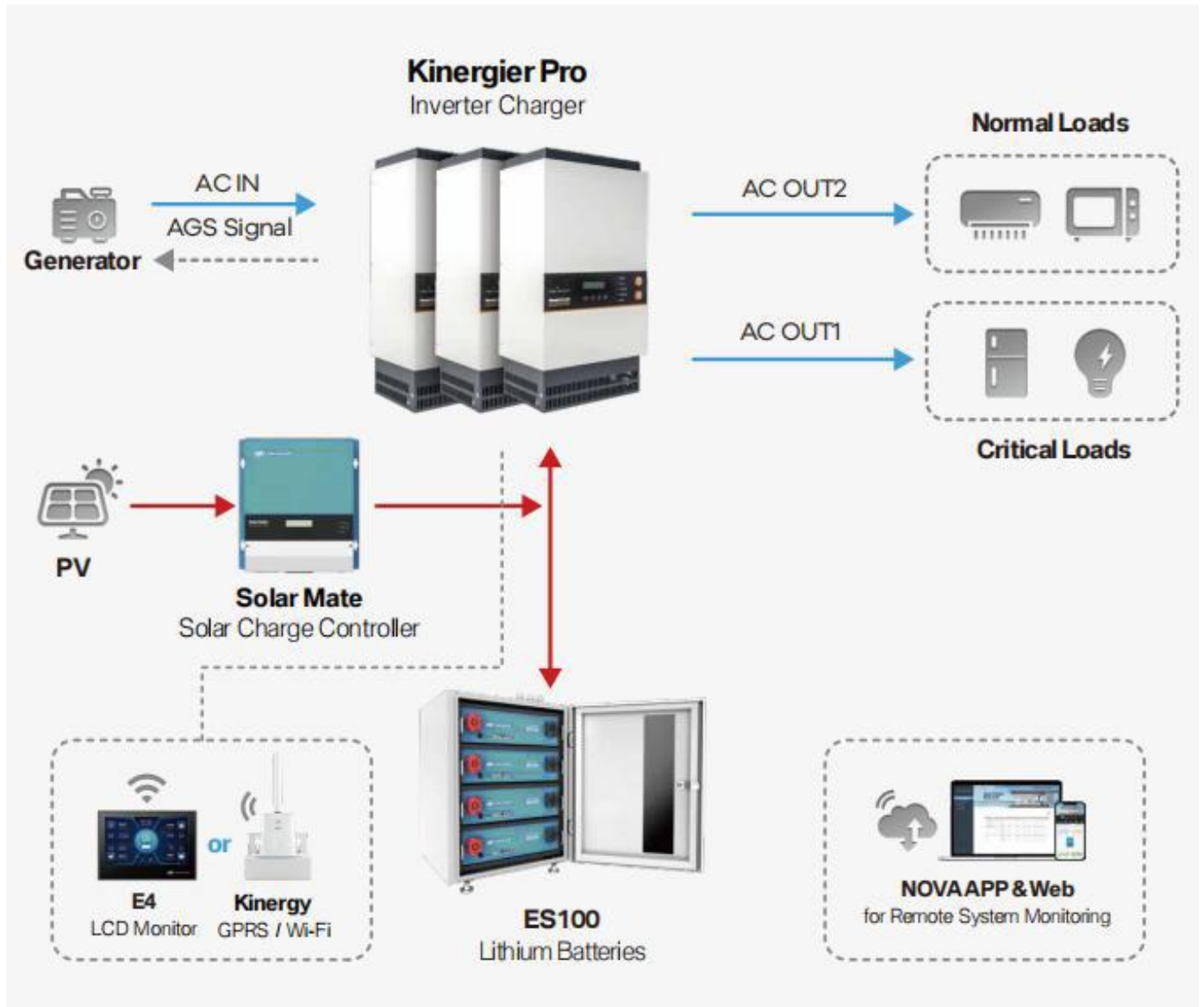
AC charger+Inverter+AC transfer switch
(50A)

Max output power 8000W

AC+DC+PV Distribution

Raython Model 2 Off-grid & ESS Diagram





Raython Model 2 Specifications

Model	Raython Model 1
AC input	
Generator compatible	Yes
AC input voltage range (VAC)	175~265
AC input frequency range (Hz)	45~65
AC input current (transfer switch) (A)	50
Inverter	
Product topology	Transformer based
Nominal battery voltage (VDC)	48VDC



Input voltage range (VDC)	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
Max output power at 25°C (W)	8000
Cont output power at 25°C (W)	6500
Peak power (10 sec)(W)	13000
Surge	300%
Maximum efficiency	96%
Zero Load Power (W)	26
Max AC charge current (A)	110
Main output (AC Out1) Current (A)	50
Transfer time	< 2ms (< 15ms in Weak AC source Mode)
MPPT Charger	
Max output current (A)	120
Maximum PV power (W)	9000
PV open circuit voltage (V)	150
Maximum PV short circuit current (A)	80
MPPT voltage range (V)	65~145
MPPT charger maximum efficiency	98%
MPPT efficiency	> 99.9%
Battery	
Battery type	LiFePO4 Li-ion battery
Nominal energy capacity	10.08kWh-20.16kWh
General data	
General purpose com. port	GPRS/Wi-Fi optional with Kinergy
Operating temperature range	Invert: -20°C to 65°C / Battery: discharge -20°C to 55°C , charge: 0°C to 40°C
Relative humidity in operation	95% without condensation
Altitude (m)	2000
Mechanical data	
Dimension (mm)(max)	W*D*H(mm) 600*700*1100
Net weight (kg)	200kg (Estimated)
Cooling	Forced fan
Protection index	IP54
Standards	
Safety	EN-IEC 60950-1, EN-IEC 62109-2
EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-3-11, EN61000-3-12



Grid Code	/
-----------	---

