

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.

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Raython Model1 & Model 2

RAYTHON M O D E L RAYTHON

5KW | 10.08kWh~20.16kWh

8KW | 10.08kWh~20.16kWh

Raython Model 1

Off-grid System & Residential Energy Storage System



E4 LCD Monitor

For system local monitoring and control

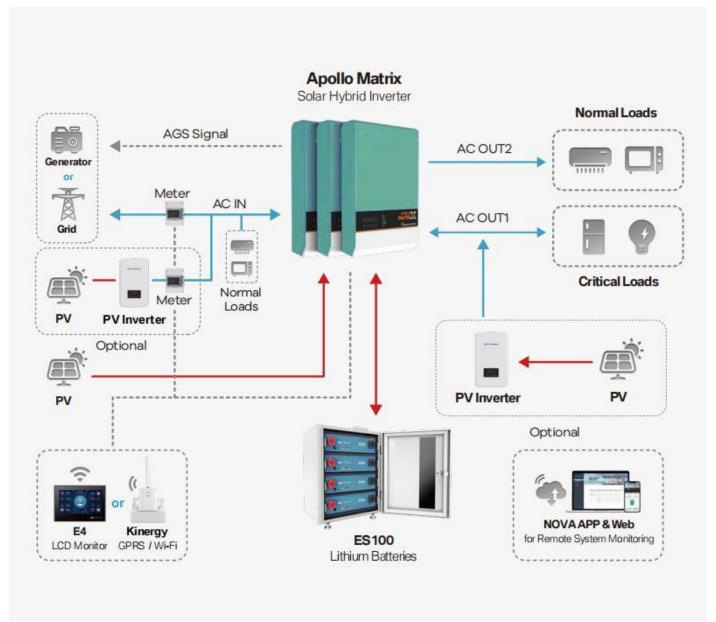
Solar Hybrid Inverter Apollo Matrix 5.0S

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

Max output power 5000W

Raython Model 1 Off-grid & ESS Diagram





Raython Model 1 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



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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℃ (W)	5000
Cont output power at 25℃ (W)	5000
Peak power (10 sec)(W)	8000
Surge	300%
Maximum efficiency	96%
Zero Load Power (W)	21
Max AC charge current (A)	70
Main output (AC Out1) Current (A)	50
Transfer time	<2ms (<15ms in Weak AC source Mode)
MPPT Charger	,
Max output current (A)	90
Maximum PV power (W)	6000
PV open circuit voltage (V)	150
Maximum PV short circuit current (A)	60
MPPT voltage range (V)	65~145
MPPT charger maximum efficiency	98%
MPPT efficiency	>99.5%
Battery Parameter	
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
	Invert:-20℃ to 65℃/
Operating temperature range	Battery: discharge-20 ℃ to 55 ℃,
	charge: 0℃ to 40℃
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 62477-1, EN-IEC 62109-1,EN-IEC
	62109-2
EMC	EN61000-6-1, EN61000-6-2, EN61000-6-3,
	EN61000-3-11, EN61000-3-12



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