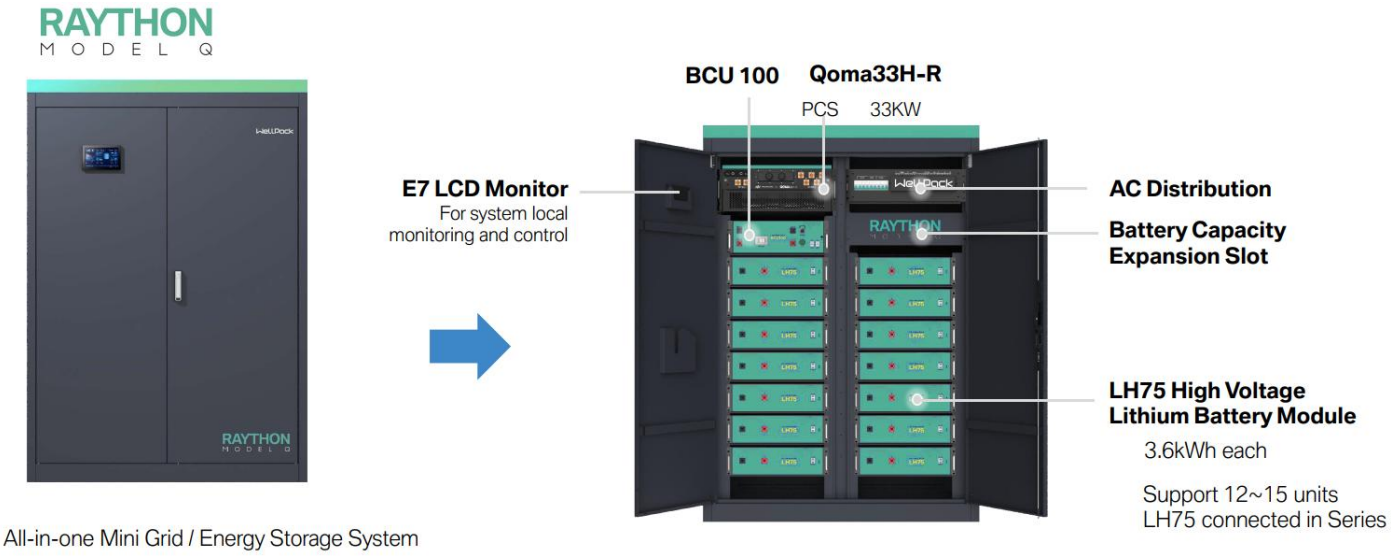
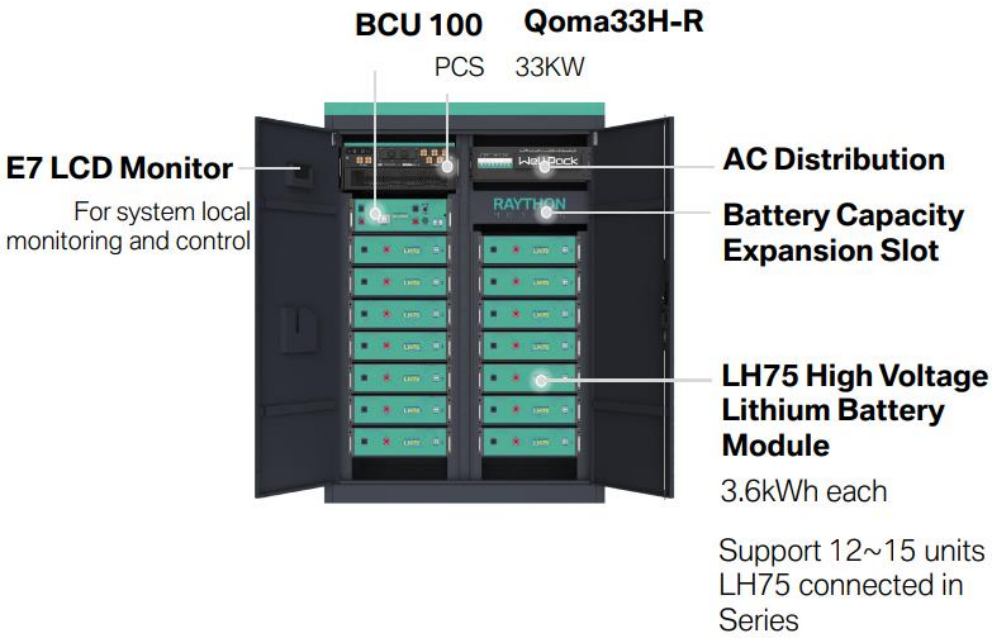
Raython Model Q

33KW | 720V 43.2kWh~54kWh (90% DOD)

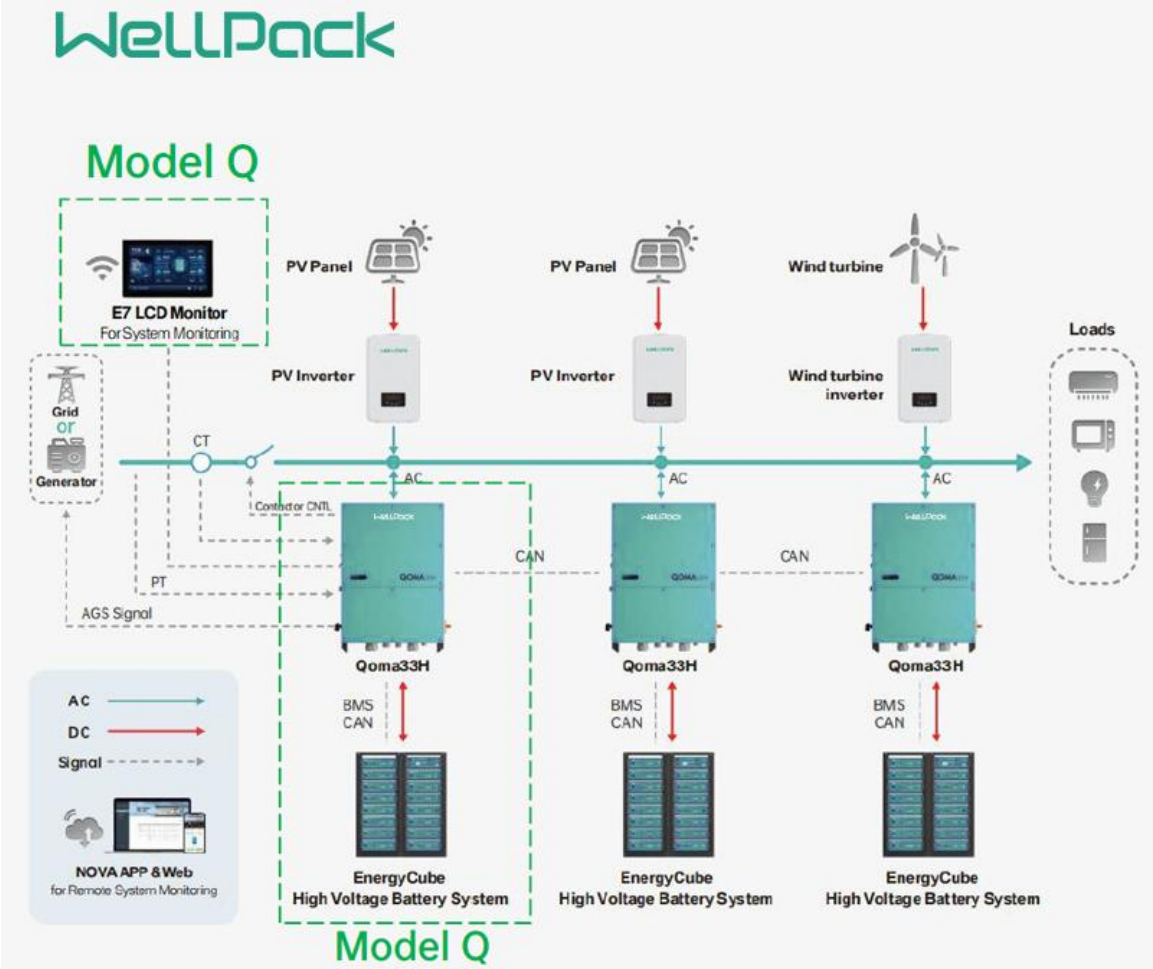


All-in-one Mini Grid / Energy Storage System



- Highly integrated with a Power Conversion System, High Voltage Lithium Battery Modules, a Battery Control Unit, a E7 LCD Monitor and an AC Power Distribution
- Modular design, expandable up to 330KW, 540kWh (10 units)
- All-in-one design for small footprint
- 24/7 local monitoring and control on E7 LCD Monitoring
- System remote monitoring on NOVA App & Web
- Factory assembled and tested system enables you to get free from complicated groundwork

Mini Grid / Commercial & Industrial ESS Diagram



Raython Model Q Specifications

Model	**ESS**
System specification	
Nominal Output Power	33kw
Maximum AC Input Power	33kW
Battery Capacity Range	43 2kWh~54kWh (90% DOD)
Battery Chemistry	LiFePO4
IP Protection	IP21
Cabinet Dimension(W *D* H)	TBD
Cabinet Weight	TBD
Warranty	3 years product warranty, 10 years performance warranty
Inverter Technical Specification	
Model	Qoma33H - R
Battery Voltage Range	400~850V

Max . Charging/ Discharging Current	62A
AC Side (Grid)	
Nominal Output Power	33kVA@45C,30kVA@50C
Nominal AC input Current	50A
Nominal AC Voltage/ AC Voltage Range	400V/230V, -20%~15%
Nominal Grid Frequency/Frequency Range	50Hz:47Hz~52Hz;60Hz:57Hz~62Hz
AC Current THD	<3 %(at nominal power)
Power Factor at Nominal Power /Adjustable Power Factor	>1 leading - 1 lagging
Adjustable Reactive Power	- 100%~100%
AC Side (Micro-Grid)	
Nominal AC Voltage	400V/230V, -20%~15%
AC Voltage THD	< 1 % (Resistance Load)
Unbalance Load Capacity	1
AC Output Power	45kW/30s
General Data	
Maximum Charge Efficiency	0.98
Reverse Polarity Protection	Yes
Overvoltage Protection	DC Type II /AC Type III
Grid Monitoring /Ground Fault Monitoring	Yes/Yes
Insulation Monitoring	Yes
Overheat Protection	Yes
Degree of Protection	IP65
Operating Ambient Temperature Range	-25 to 60˚(＞45˚de - rating)
Allowable Relative Humidity Range (non -condensing)	0 - 100%
Cooling Method	Temperature controlled forced air cooling
Max. Operating Altitude	4000 m (＞3000 m de - rating)
Safety	IEC/EN62477-1, IEC/EN62040-1
EMC	EN61000-6-1/-2/-3/-4;
Grid Regulation	IEC62116, IEC61727, NRS097 -2 - 1
Grid Support	LVRT, Active & Reactive Power control and power ramp rate control
Lithium Battery Technical Specification	
Module Model	LH75
Module Capacity	3 .6kWh
Module Nominal Voltage	48VDC
Operating Temperature Range	- 10℃~+55℃
Maximum Charging Discharging Current	37 .5A/37 .5A
Safety	UN38 .3
EMC	EN 61000-6-1:2007,

	EN IEC 61000-6-2:2019, EN 61000-6-3:2007+A1: 2011/AC:2012, EN IEC 61000-6-4:2019
Battery Modules	12~15 LH75 in Series