



ROSEWATER ENERGY MANAGEMENT HUB

“The most complete intelligent residential energy solution on the market today”

The RoseWater Energy Hub is the first all-in-one residential and light commercial power solution integrating three capabilities into one platform to serve the complete electrical needs of an entire premises, in essence transforming the electrical system in place into a microgrid:

- Power conditioned output protects and enhances the performance of all home and office electronics. With power quality higher than utilities, sensitive audio and video systems as well as home networking components, home automation and lighting control systems will perform at their best and last longer.
- Uninterruptable Power Supply with zero transfer time, and a large amount of battery back up will safely and securely allow you to ride out power failures.
- Ready for renewables – users adopting the RoseWater Energy Hub for power quality and back-up reasons can “go solar” for relatively little additional cost, for greener living.

The RoseWater Energy Hub offers a seamless **total system integration solution**, using a dual inverter system with solar input, that blends power conditioning, backup, and renewable energy management into one pre-assembled, configured and integrated industrial-grade platform. With everything integrated, prewired and tested, the potential for installation and set-up problems is greatly reduced at the jobsite.



Model HUB 20-28-8-NC shown here with AC Cabinet on the left and Nano Carbon Battery Cabinet on the right

NANO CARBON CONFIGURATIONS

Part Number	Inverters	Batteries	Catastrophic Event (Battery Charge)	Cycle Life Expectancy Under optimal conditions	Solar Input
	(kVA)	(Eff kWh)	(NP kWh)		(PV kW)
HUB 10-20-4-NC	10	9.6	19.2	7 years	4
HUB 20-28-8-NC	20	14.4	28.8	7 years	8

LITHIUM IRON PHOSPHATE CONFIGURATIONS

Part Number	Inverters	Batteries	Catastrophic Event (Battery Charge)	Cycle Life Expectancy Under optimal conditions	Solar Input
	(kVA)	(Eff kWh)	(NP kWh)		(PV kW)
HUB 10-12-4-LI	10	12	12	10 years	4
HUB 20-12-8-LI	20	12	12	10 years	8





ROSEWATER ENERGY STORAGE HUB

SYSTEM OUTPUT POWER (UPS)

AC Voltage	120/240V 3 Wire + Ground
AC Current	83A Max
Frequency	60Hz, Same as input frequency
Power	Up to 20kVA/16kW Continuous
Transfer Time	Zero transfer time

UPS INVERTERS

Inverter System	2.5KVA/2.0KW modules, up to 4 per shelf
Inverter Arrangement	Two shelves, one phase per shelf (L1 and L2)
Input Voltage (VAC)	120V
Output Voltage (VAC)	120V
Battery Voltage (VDC)	48 nominal
Transfer Time	Zero Transfer Time
Safety Standards, NRTL Recognition	CSA C22.2 107.3-05, UL1778; Issue 4 (shelves and modules)

INVERTER/CHARGERS

Charger Quantity	2
Charger Voltage	48VDC nominal
Charger Output	45ADC
Inverter Output	3600VA

BATTERIES

Model	AlphaCell 200NC
Type	Nano Carbon VRLA
Battery Voltage (VDC)	12V
Battery Bus Voltage (VDC)	48V
Energy Storage	Up to 28.8 KWh (100hr discharge rate)
Battery Arrangement	(3) trays pre-wired in all models

ENCLOSURE

DIMENSIONS

AC Cabinet	84" H x 23.6" W x 26.75" D
Nano Carbon Battery Cabinet	84" H x 28.1" W x 22.1" D
Lithium Ion Battery Cabinet	84" H x 23.6" W x 26.75" D

Mounting	Ground Mount, Concrete, Anchored
Corrosion Resistance	Powder Coated
System Level Cooling	Forced air/passive convection
Environment	Indoor
Pollution Degree	IEC Pollution Degree 2
Filters	None
Storage Temperature	-4 to 130° F (-20 to 54° C)
Operation Temperature	-4 to 104° F (-20 to 40° C)
Humidity (%)	0 to 93% non-condensing