



**PRELIMINARY**

## ROSEWATER ENERGY STORAGE HUB-SB20

**“The most complete intelligent residential power quality solution on the market today”**

The New RoseWater Energy HUB-SB20 is an all-in-one residential and light commercial power quality solution integrating three industrial grade capabilities into one platform to serve the complete power quality needs of an entire premises.

- 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.
- Industrial grade surge protection to mitigate the damage caused by naturally occurring weather anomalies.

The New RoseWater Energy Hub offers a seamless total system integration solution in 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.

### NANO CARBON CONFIGURATION

Part Number	Inverters	Batteries	Catastrophic Event (Battery Charge)	Cycle Life Expectancy	Cycle Life Expectancy
	(KVA)	(Eff kWh)	(NP kWh)	@ 75° F	@ 100° F
HUB-SB20-28-8-NC	20	14.4	28.8	7 years	3.5 years



# ROSEWATER ENERGY STORAGE HUB-SB20

## 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, 10kVA/8kW per line (i.e. per shelf)
Transfer Time	Zero transfer time

## UPS INVERTERS

Inverter System	AMPS80-2-20
Inverter Quantity	Up to 8
Inverter Arrangement	Two shelves, once phase per shelf (L1 and L2)
Input Voltage (VAC)	120V (range 90V - 140V adjustable)
Output Voltage (VAC)	120V
Battery Voltage (VDC)	48 nominal (range 40V - 60V adjustable)
Transfer Time	Zero Transfer Time
Safety Standards, NRTL Recognition	CSA C22.2 107.3-05, UL1778; Issue 4 (shelves and modules)
EMC	FCC CFR47 Part 15 Class A; ICES-003

## BATTERIES

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

## ENCLOSURE

Mounting	Ground Mount, Concrete, Anchored
Corrosion Resistance	Powder Coated
System Level Cooling	Passive (dedicated forced air convection at individual component level)
Environment	Indoor
Pollution Degree	IEC Pollution Degree 2
Filters	None
Storage Temperature (C)	-4 to 130° F
Operation Temperature (C)	-4 to 104° F
Power de-rating with local operating temperature 1% per degree above 40°C (FM80 only)	1% per degree above 25°C (FXR-A grid tie inverter only)
Humidity (%)	0 to 93% non-condensing

*This is preliminary information. All specs stated are subject to change.*