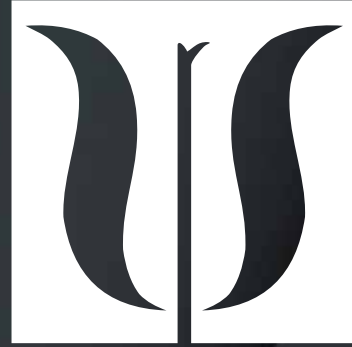




ROSEWATER



ENERGY GROUP

**“THE MOST COMPLETE
INTELLIGENT POWER
QUALITY SOLUTION ON
THE MARKET TODAY”**

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

- Power purification protects and enhances the performance of all home and office electronics. 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 backup 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 total system management solution in one preassembled, configured and integrated industrial-grade platform. Having everything integrated, prewired and tested ensures perfectly consistent installation at the jobsite.

SB20



ABOUT ROSEWATER

RoseWater Energy Group creates innovative and intelligent energy management systems for governments, utilities, industries and residential consumers. Focused on the mission to create the next generation of renewable smart grid systems leveraging the best battery storage technologies, RoseWater works with our clients to design, build, integrate and manage power system assets specific to their needs. The Energy Management Hub is the first and only power management product to be featured within a micro-grid in the head office of a major utility company.

The next generation of energy is upon us, and RoseWater Energy will prepare you for it.

HUB 20



EXTENDED BATTERY PACK





HOW DOES THE HUB SB20 STACK UP TO THE COMPETITION?

The design prowess, engineering expertise and manufacturing capability sets the RoseWater SB20 apart from the competition. Let's break down the details:

- Lowest total harmonic distortion - all the critical electronics connected through the HUB work better, are more reliable and will last longer.
- Commercial, telecom and military grade lightning protection - RoseWater utilizes the same type of lightning protection used to protect mission critical devices.
- Highest efficiency - very little loss of power through the device.
- Longest battery run time - Unlike our competition, our run times are calculated in terms of hours, not in terms of minutes.
- 20 kilowatts of output - This is typically enough to cover all audio/video, lighting, security, internet infrastructure and control in a modern home.
- Industry leading three-year warranty.
- Included pre-sale engineering and contractor interface.
- Full control and monitoring - RoseWater engineers and the local integrator are always in touch with the HUB, allowing them to monitor the device.
- Sustainable product - the ability to integrate solar and use the internal automation to reduce carbon footprint.

Put simply, the RoseWater SB20 is the best built and most complete energy management device for the home available today.



ROSEWATER ENERGY STORAGE SB20

NANO CARBON CONFIGURATION

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

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	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	57.6 with and extra battery pack
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.

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