



550kWh and 1MW Thermal Energy		
1	Power Requirements	This unit does not require grid connection. It is fully self contained
2	Charging Cables	Standard
3	Power Generation Module	Fully-Integrated Organic Rankine Cycle (ORC) Power Module with 100 kW Asynchronous Generator, 550kWh battery, 1 MW thermal energy.
4	ORC Working Fluid	Honeywell Genetron 245fa (Non-ozone-depleting)
5	Safety Systems	Electrical breakers. Over-Temperature, Over-Pressure, and Fire Suppression
6	Control System	PLC-Based; Remote Monitoring and Control over the Internet
7	Transportation and Setup	Shipped assembled; Ready for immediate use after simple hood installation; Lifting eyes provided for crane lifting. No permanent facilities needed.
8	Air Blast Cooler (CW) or Cold Water pump see #9 below	Skid mounted unit, Fully portable, Outdoor rated, Digitally controlled fans to minimize energy loss. Units may vary depending on location.
9	Cooling Water (CW)	Water from a local river or lake can <u>replace</u> the Cooling Module. 325 gpm [74 m ³ /hr], 85° F [30° C] Max.
10	CW Interface	6" Nominal, 150-lb Flanges
11	Induction Fan	PLC-Controlled; Variable Speed
12	Hot Water (HW) Pump	PLC-Controlled; Variable Speed
13	HW System Working Fluid	30% - 40% (by Vol.) Ethylene-Glycol/Water Mix
14	Storage Temperature Limits	-20° F to 140° F [-29° C to 60° C]
15	Construction	Steel WF beam and square tubing construction with full-length skid plate; Industrial-paint
16	Approx. Weight	FM= 35,000lbs (16,000kg) BSM=27,000lbs (12,247kg) PM= 39,000 lbs (17,700 kg) CM=18,000 lbs (8,165 kg)
17	Dimensions <i>(w/ Hood Installed). Battery Module is dependent on battery size (call factory).</i>	L x W x H
		FireBox L 27' × W 7' 5" x H 8' 6" (8.2 m x 2.3 m x 2.6 m)
		Power Module 33.5 ft x 7.5 ft x 10.5 ft [10.2 m x 2.3 m x 3.2 m]



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