460 kWh envision aesc energy storage

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Envision Energy has unveiled its latest grid-scalebatteryenergy storage system (BESS)at the recently heldElectrical Energy Storage Alliance (EESA) Energy Storage Exhibition held in Shanghai. The productboasts anenergy density of 541 kWh/m^2 in its class, significantly higher than many of BESS products available in global markets right now.

The new BESS product, made up of700 Ah lithium-iron phosphate (LFP) battery cells sourced from Japanese battery companyAESC, packs a little over 8 MWh of energy storage capacity in a 20-foot container. With aroundtrip efficiency of 96 percent, the battery system claims alifespan of about16,000 charge-discharge cycles.

As per media reports, the battery systemweighs about55 tons.The system isliquid-cooled, andhas a voltage range of1500-2000 Volts. It is configurableto offer astorage backupof two to eight hours, depending on the customer"s requirements.

The company is expected to commercially launch the new 8 MWh BESS in global markets in the coming months, adding to its already robust BESSproduct lineup, whilesettingnew benchmarks for safety and performance in the industry.

It is to be noted that Envision ventured into the 20-foot container-class of battery systems for grid-scale deployments last year.

Recently in June this year, the company launched its 5 MWh containerized liquid-cooled BESSadheringto the highest safety standards and performance levels. It employs 315 Ah LFP batterycells, also sourced from AESC.

Shanghai-headquartered Envision Energy launched its latest grid-scale energy storage system at the third Electrical Energy Storage Alliance (EESA) Energy Storage Exhibition held in Shanghai this week. The product’s energy density stands at 541 kWh/m^2, making it the leading one in the industry to date.

The product release follows the launch of the 6.25 MWh energy storage system by CATL in April and several other companies launching 6 MWh+ storage systems packed in a standard 20-foot container, ushering in a new energy density era for the battery energy storage systems.

However, Envision’s latest product far surpasses all earlier system-level achievements. It packs more than 8 MWh using 700 Ah lithium iron phosphate battery cells made by Japan-headquartered AESC, in which Envision holds a majority stake.

“We made a huge jump from 315 Ah battery cells used in our previous generation products to 700 Ah and we did this to lower the cost on the system level,” a company representative told ESS News at the show in Shanghai.

The latest generation product has an energy density of more than 440 Wh/l, a roundtrip efficinecy of 96%, and a cycle lifetime of nearly 16,000 charge-discharge cycles.

The liquid-cooled system has a voltage range from 1500 V – 2000 V and is configurable for storage durations of two to eight hours. The container weighs around 55 tons.

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