

## XPAND Rack System (XRS-2)



### The XRS Advantage

- Designed for use with XALT XPAND XMP sub-packs
- Easy to install, configure, and upgrade
- Integrated liquid cooling distribution and off-gas ventilation ducting
- Expandable to virtually no limit

### Introducing the XRS-2 (XPAND Rack System)

The XRS-2 is a highly-configurable rack system designed to contain XALT XPAND battery system components for marine and grid applications. The rack has been validated to pass the aggressive DNV-GL vibration specifications and resist the harshest corrosive environments, all while minimizing size and weight.

### Configurability (Battery Box)

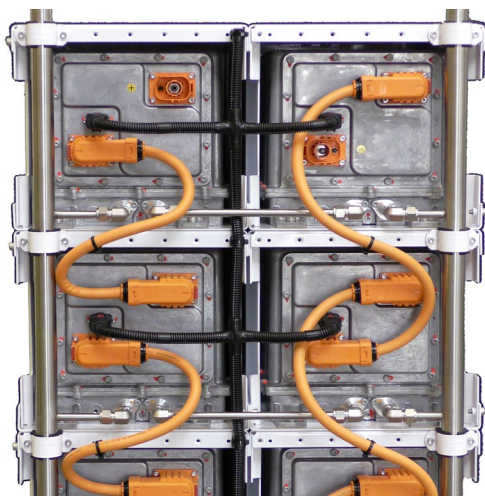
The XRS-2's design is highly-configurable so it can fit your unique application with no redesign work; this reduces lead time and cost to the end-user. This is accomplished through the use of the Battery Box, which contains a single battery system component, and can be easily connected vertically and horizontally to create a rack that perfectly fits the application. The XRS-2 can be built up to seven (7) Battery Boxes high (2.3m) and have as many columns as desired.

### Ease of Installation and Service

The XRS-2 is delivered to the end-user as a kit for on-site assembly. All interfaces to the sub-packs are in the front (electrical connectors, coolant ports, and mounting fasteners), eliminating the need for access to the back of the rack. In addition, XALT is committed to maintaining the current footprint and interface for all existing and future XPAND XMP sub-packs. This means that as the industry advances, the sub-packs could be easily upgraded without changing the rack.



\*Cables not included in XRS-2 kit



### Off-gas Ventilation and Thermal Management

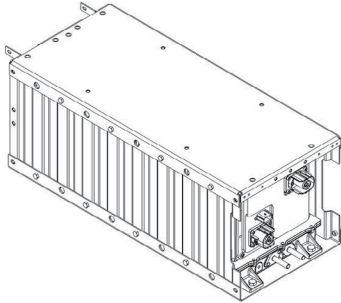
The XRS-2 is designed with integrated off-gas ventilation ducting. The ducting forms a seal around each sub-pack's overpressure vents to ensure all gases are safely removed from the vessel in the unlikely case of a thermal event. Where battery spaces have been designed to do so, ducting could be eliminated to further reduce the XRS-2 footprint.

In addition, the XRS-2 includes all stainless steel integrated liquid cooling distribution to provide coolant to each sub-pack.

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### Advantages

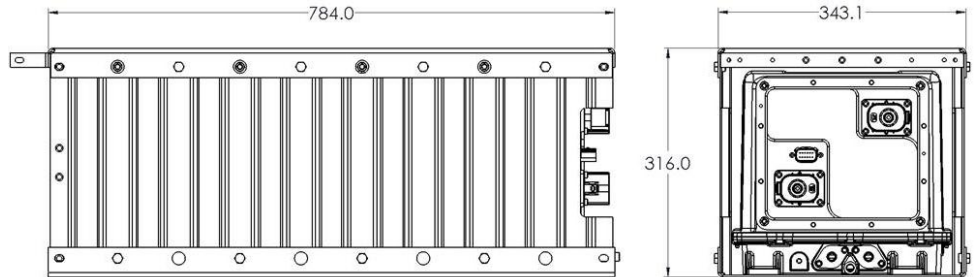
- Modular and expandable
- Can be populated with any of the XPAND XMP sub-packs
- Width and height can be optimized for any application
- Exceptionally easy to install, service and upgrade
- Specialized coatings provide extreme resistance against corrosion



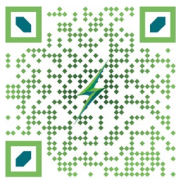
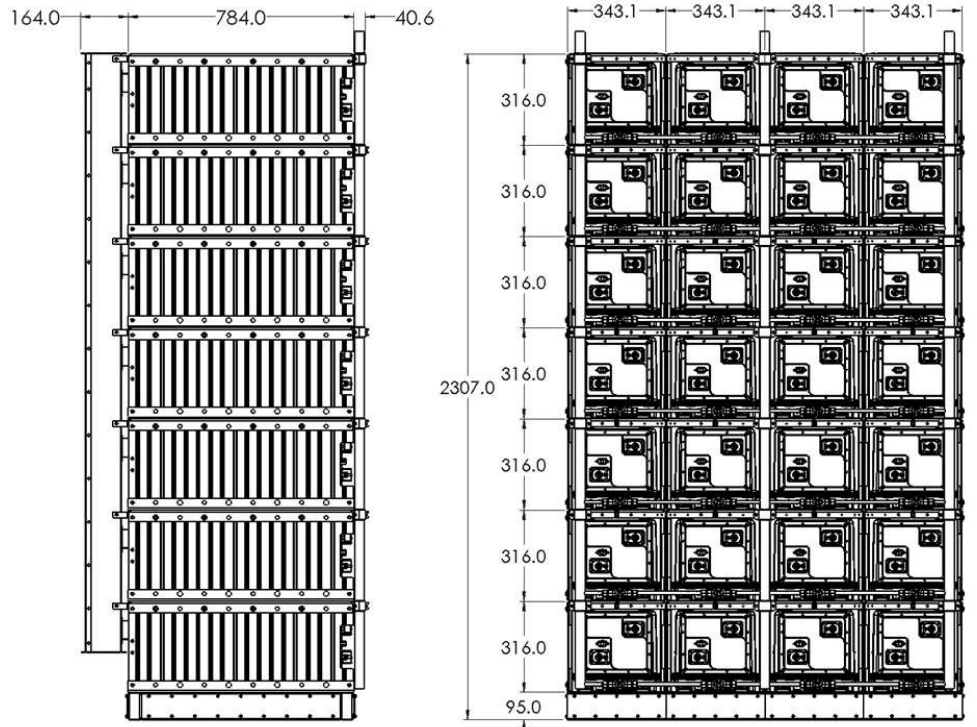
### Specifications

#### Battery Box Performance

Dimensions (L x W x H)	784 x 343.1 x 316 mm
Volume	85 L
Mass	
Battery Box	23.96 kg
Battery Box Populated with Sub-pack	100.75 kg



#### Example Rack Dimensions for 4x7 XRS-2



<sup>1</sup>Product specifications are preliminary; XALT Energy reserves the right to modify the product technical specifications.