



ABOUT ARBARR

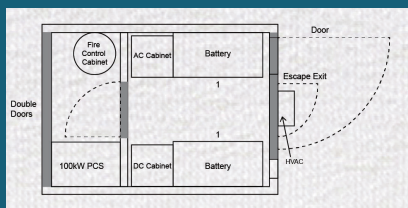
Arbarr Electronics have been operating at the forefront of Electrical Energy Storage for over 25 years. Established in 1989, the company provides an end-to-end service with full design and manufacturing capabilities. Arbarr's patented technologies have been utilized across many industries including Electric Vehicles, Aviation, Marine, Portable Electrical Equipment, Off-Grid Power Provision, Hybrid Vehicles, Container Energy Storage from 1MW, Emergency Lighting & Marshalling, and for Increased Self-Consumption of Renewable Energy.

Capable of providing the charging layer, inverter layer, energy storage layer, and the energy storage management layer, Arbarr takes care of the detail so you don't have to; offering true plug & play systems with data interfacing options to enable full integration to parallel systems. We're with you every step of the way to ensuring project success.

CONTAINERIZED COMMERCIAL ENERGY STORAGE SOLUTIONS

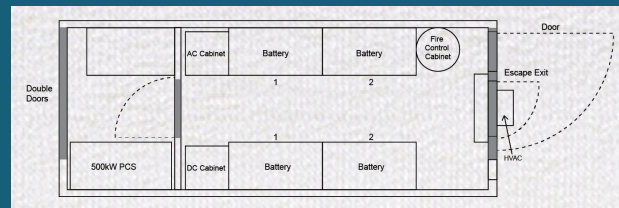
The highly customised inter-modal container will be provided by Arbarr to make an enclosure of the energy storage system, with the protection class of NEMA 3R. This will be the combination of Battery room with air conditioners, PCS/Inverter room are cooled by forced air and Transformer room with EMS.

10' Container ESS Solution



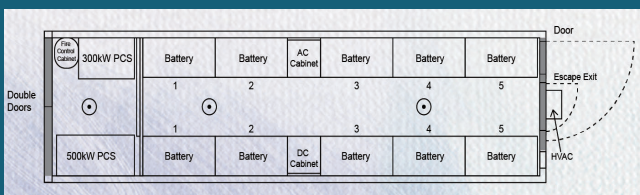
AR10x9.5P327kWh - 100kW/327kWh
(10x8x9.5 feet)

20' Container ESS Solution



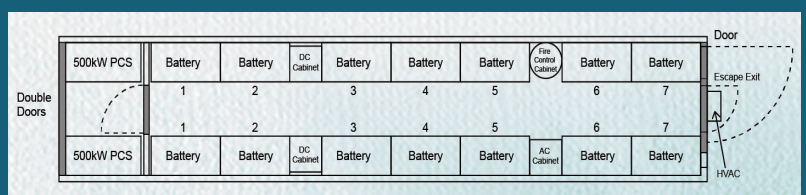
AR20x9.5P763kWh - 250kW/763kWh
(20x8x9.5 feet)

30' Container ESS Solution



AR30x9.5P1600kWh - 500kW/1000kWh or 750kW/1600kWh
(30x8x9.5 feet)

40' Container ESS Solution



AR40x9.5P2000kWh - 1000kW/1000kWh or 1000kW/2000kWh
(40x8x9.5 feet)



LOW COSTS

- Highly integrated ESS for easy transportation
- All pre-assembled, no battery module handling on site
- 16 hour installation to commission, drop on a pad and make electrical connections



EFFICIENT AND FLEXIBLE

- Intelligent liquid cooling ensures higher efficiency and longer battery cycle life
- Modular design supports parallel connection and easy system expansion
- IP55 outdoor cabinet and optional C5 anti-corrosion



SAFE AND RELIABLE

- DC electric circuit safety management includes fast breaking and anti-arc protection
- Multi level battery protection layers formed by discreet standalone systems offer impeccable safety



SMART AND ROBUST

- Fast state monitoring and faults record enables pre-alarm and faults location
- Integrated battery performance monitoring and logging

Arbarr ESS systems can be placed to enable smoother integration of renewable energy sources, but they also help balance electricity supply and demand. With Arbarr ESS, energy is available in real time when primary power sources have been interrupted. The solution provides benefits for the entire power system, from generation, transmission and distribution to micro grid operators, all the way to end consumers.

Battery Room - The battery room takes most of the spaces in the 40ft container and temperature controlled by 2 air conditioners. The battery room is divided into 2 symmetrical independent rooms, each room will be cooled by one air conditioner. There is one air duct on top of each battery room, delivering the cooled air to the top of the battery racks.

Inverter Room - The energy storage inverters will be mounted in the inverter room. The inverters are cooled by forced air, the cool air is sucked from the front of the inverter, and the heated air exhausts via the rear of the inverter. Centrifugal fans are used to pump the heated air out of the inverter room.

Transformer Room - Half of the transformer room will be occupied by fire suppression systems and other parts such as EMS etc.