

By email
14 July 2025

Carl Nelson
Project Manager, AirTrunk

Dear Carl

SYD2 Extension

Apollo Place DC - Mod 4 - Battery Information

We understand that clarifications around batteries quantity within the development has been requested, excerpt of the query is included below:

"The engineering rationale for increasing the quantity of lithium-ion batteries on site from 55,080 kg to 308,000 kg, including the specific quantity required for APDC."

The quantity and location of the batteries are determined by customer requirements. The final quantity of 308,000 kg mentioned above is based on the installed battery quantity within the fitted-out area (approximately 75% of LWDC) and the expected maximum quantity for the remaining area. The data used to arrive at these quantities are derived from customers' technical data and can be summarised into two main topologies:

1. Centralised batteries: In this topology, batteries are located within a centralized area, outside of the data hall. Based on technical data, we found that the centralized batteries topology requires more battery per data hall and per IT load.
2. Distributed batteries: In this topology, batteries are distributed within the data hall, among server racks. It was found that less battery mass is required within this topology.

APDC has not yet got a confirmed batteries/electrical topology. To provide accurate data, we have provided battery quantities associated with each of the two options above.

Batteries are required within data centre facilities to provide an uninterrupted power supply, allowing diesel generators to start up in the event of a mains power failure and helping to condition power supply quality. This ensures reliable communication services. Lithium batteries have become a preferred solution due to their low self-discharge and longer lifespan, contributing to a more environmentally sustainable solution.

Date

14 July 2025

Yours sincerely

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