



**acme Hub**

**Technical Specifications Booklet**

# **Tech Specs for** Small-scale Acme Hub

|                          | Options                  | Small-scale Acme Hub (40ft) - 380v   |   | Small-scale Acme Hub (20ft) - 380v 8kW                                   |                             | Small-scale Acme Hub (20ft) - 380v 16kW                                 |                            |
|--------------------------|--------------------------|--|---|--|-----------------------------|---|----------------------------|
| Entire System Parameters | Dimensions (H x W x D)   | 2896 x 2438 x 12,192 mm  |   | 2896 x 2438 x 6058   | 2896 x 2438 x 6058          | 2896 x 2438 x 6058  | 2896 x 2438 x 6058         |
|                          | Total Power              | ≤ 54 kW  | ≤ 54 kW                                 | ≤ 8 kW   | ≤ 8 kW                      | ≤ 16 kW   | ≤ 16 kW                    |
|                          | Number of Cabinets       | 8 x 42U IT racks   | 6 x 42U IT racks                        | N63: 13<br>N66: 6<br>N68: 4  | N63: 12<br>N66: 6<br>N68: 4 | N63: 12<br>N66: 6<br>N68: 4   | N63: 8<br>N66: 4<br>N68: 2 |
|                          | Waterproof and Dustproof | IP55 protection level (standard configuration)                             |   |  |                             |   |                            |
|                          | Anti-seismic             | Intensity 9  |   |  |                             |   |                            |
|                          | Temperature Range        | -20°C to +55°C   |   |  |                             |   |                            |
| Electrical Parameters    | Power Mode               | 380/400/415 V, 3 phase, 50/60 Hz, four-wire+PE                             |   |  |                             |   |                            |
|                          | Surge Protection Level   | Class B, nominal: 30 kA (8/20 μs), maximum: 60 kA (8/20 μs)                |   | Class C, nominal: 20 kA (8/20 μs), maximum: 40 kA (8/20 μs)              |                             |   |                            |
|                          | Power System             | ≤ 60 kVA (Modules in 2 + 1 redundancy)                                     | ≤ 60 kVA (Full kit in 1 + 1 redundancy) | ≤ 24 kW (The actual capacity is 18 kW, with modules in 5 + 1 redundancy) |                             | ≤24 kW (The actual capacity is 24 kW, with modules in 7 + 1 redundancy) |                            |
|                          | Battery Type             | Li-ion UPS   |   | Li-ion UPS Pro   |                             |   |                            |
|                          | Battery Backup Time      | 15 min   | 20 min                                  | 3 h  | 6 h                         | 2 h   | 4 h                        |
| Cooling Parameters       | Cooling System           | Air cooled in-row precision air conditioner: 25 kW/unit (3 + 1 redundancy) |   | Intelligent heat exchanger: 3 kW/unit (4 + 1 redundancy)                 |                             | Intelligent heat exchanger: 4.75 kW/unit (5 + 1 redundancy)             |                            |
|                          | Coolant                  | R410A  |   | R134A  |                             |   |                            |

# **Tech Specs for** Regular-scale Acme Hub

|                               | Options                                    | Regular-scale DC   Single Acme Hub Module-150 kW  | Regular-scale DC   Dual Acme Hub Module-300 kW                   |
|-------------------------------|--|---|--|
| Entire System Parameters      | Dimensions (H x W x D)                     | 3600 x 2438 x 12,192 mm   | 3600 x 3495 x 12,192 mm  |
|                               | Total Power                                | ≤150 kW   | ≤300 kW  |
|                               | Number of Cabinets                         | 26 (main aisle width: ≤ 1.5 m)<br>28 (main aisle width: ≤ 0.9 m)  | 52 (main aisle width: ≤ 1.5 m)<br>56 (main aisle width: ≤ 0.9 m) |
|                               | Waterproof and Dustproof                   | IP55  |  |
|                               | Anti-seismic                               | Intensity 9   |  |
|                               | Temperature Range                          | -20°C to +55°C, -40°C to +45°C (If the temperature is lower than -20°C, thermal insulation at the base is required) |  |
|                               | Electrical Parameters                      | Power Mode  | 380/400/415 V, 3 phase, 50/60 Hz, four-wire + PE                 |
| Surge Protection Level        |  | Class B, nominal: 30 kA (8/20 μs), maximum: 60 kA (8/20 μs)   |  |
| Power System                  |  | 200kVA Li-ion UPS (Full kit in 1+1 redundancy)  | 200kVA Li-ion UPS (Duo Full kit in 1+1 redundancy)               |
| Battery Backup Time           |  | Single-route 15 min at full load (SmartLi)  |  |
| Cooling Parameters            | Cooling System                             | In-Room Air Cooled Smart Cooling (In room DX, 3+1 redundancy)   | In-Room Air Cooled Smart Cooling (In room DX, 7+1 redundancy)    |
|                               | Continuous Power Supply to Cooling Devices | 15 min at full load   |  |
|                               | Aisle Containment                          | Hot aisle containment   |  |
| Fire Extinguishing Parameters | Fire Extinguishing System                  | Automatic gas fire extinguishing, CE edition, non-addressable   |  |

# **Tech Specs for** Large-scale Acme Hub

|                               |  |   |
|-------------------------------|--|---|
| Entire System Parameters      | Temperature Range                          | -5°C to +55°C, -40°C to +45°C (When the temperature is lower than -5°C, thermal insulation measures are required for external walls)  |
|                               | Total Power                                | ≤ 2016 kW (single-layer)  |
|                               | Number of Cabinets                         | 178 (six modules on each layer, 28 cabinets in each module; main aisle width: ≤ 1.5 m)  |
|                               | Stacking Layers                            | 2-5   |
|                               | Waterproof and Dustproof                   | IP55  |
|                               | Anti-seismic                               | Intensity 9   |
|                               | Live Load                                  | Power supply area: 12 kN/m <sup>2</sup> ; equipment area: 12 kN/m <sup>2</sup> ; corridor and public area: 5 kN/m <sup>2</sup> ; ceiling mount: 2.4 kN/m <sup>2</sup> ; roof (without people on it): 0.75 kN/m <sup>2</sup> |
| Electrical Parameters         | Power Mode                                 | 380/400/415 V, 3 phase, 50/60 Hz, four-wire + PE  |
|                               | Power System                               | 1200 kVA power modules (1+1 redundancy)   |
|                               | Battery Backup Time                        | 10 min at full load (Li-ion UPS)  |
| Cooling Parameters            | Cooling System                             | Fan Wall, 2 x (5+1)   |
|                               | Continuous Power Supply to Cooling Devices | 10 min at full load   |
|                               | Inlet and Return Water Temperature         | Inlet water temperature: 20°C, return water temperature: 28°C   |
| Fire Extinguishing Parameters | Fire Extinguishing System                  | Gas fire extinguishing system in the equipment area, water spray system in the non-equipment area, CE edition, non-addressable  |

