

Technical specification

	module48–8 standard	module48–8 customised	module48–12 standard	module48-12 customised
Transportable data centre in a container: fully self-contained, incorporating all racking, cooling, UPS power and full integration at N+1 redundancy				
Summary	ISO standard, 20' (≈ 6 m) high cube (HC) shipping container? complying with all shipping regulations - 36 kW ICT load - 4 x ICT equipment racks - 4.5 kW per rack (at N+1 internal redundancy) - Power usage efficiency (PUE) = 1.31	ISO standard, 20° (≈ 6 m) HC shipping containerž complying with all shipping regulations Infrastructure and configuration is customised based on enduser requirements	ISO standard, 40° (≈ 12 m) HC shipping containeržcomplying with all shipping regulations - 2 x 60 kW ICT load - 8 x ICT equipment racks - 7.7 kW per rack (at N+1 internal redundancy) - PUE = 1.30	ISO standard, 40° (≈ 12 m) HC shipping container‡complying with all shipping regulations Infrastructure and configuration is customised based on end-user requirements
Dimensions	6.06 m (L) x 2.435 m (W) x 2.9 m (H)	6.06 m (L) x 2.435 m (W) x 2.9 m (H)	12.2 m (L) x 2.435 m (W) x 2.9 m (H)	12.2 m (L) x 2.435 m (W) x 2.9 m (H)
Gross weight	4,950 kg (with facility infrastructure)	4,950 kg (with facility infrastructure)	7,906 kg (with facility infrastructure)	7,906 kg (with facility infrastructure)
	5,950 kg (with ICT equipment)	Up to 6,700 kg (with ICT equipment)	10,200 kg (with ICT equipment)	Up to 10,900 kg (with ICT equipment)
Internal area	13.7 m²	13.7 m²	28 m²	28 m²
Volume	36.9 m³	36.9 m³	76.2 m³	76.2 m³
Minimum site area required / load rating	9.0 m (L) x 4.9 m (W) x 4.0 m (H) [45 m²] / 7.0 kPa live load	9.0 m (L) x 4.9 m (W) x 4.0 m (H) [45 \rm{m}^2] / 7.0k Pa live load	14.5 m (L) x 4.9 m (W) x 4.0 m (H) [65.25 m²] / 7.5 kPa live load	14.5 m (L) x 4.9 m (W) x 4.0 m (H) [65.25 m²] / 7.5 kPa live load
Mechanical cooling methodology	Air displacement (DX) with free cooling and hybrid modes	Defined by user requirement	Air displacement (DX) with free cooling and hybrid modes	Defined by user requirement
Mechanical heat rejection	34.6 kW maximum sensible	Defined by user requirement	93 kW maximum sensible	Defined by user requirement
ICT power load (maximum installed)	36 kW	Defined by user requirement	120 kW	Defined by user requirement up to 32kW
Input power circuit rating	1 x 250 A 3 ph. 415 V OR 2 x 250 A 3ph. 415 V (if optional internal ATS is fitted)	Defined by user requirement	1 x 400 A 3 ph. 415 V OR 2 x 400 A 3 ph. 415 V (if optional internal ATS is fitted)	Defined by user requirement
Input power connection	250 A integral IP67 Decontactor Male Appliance Inlet to AS 3123 (unit comes with match plug for supply cable; to be terminated on site)	Defined by user requirement	1 or 2 no. 400 A integral IP67 Decontactor Male Appliance Inlet/s to AS 3123 (unit comes with match plug/s for supply cable; to be terminated on site)	Defined by user requirement
Installed per-rack power density	4.5 kW per rack (at N+1 redundancy)	Defined by user requirement	7.7 kW per rack (at N+1 redundancy)	Defined by user requirement
Total space power density (kW/m²)	Equivalent to 2.0 kW/m² (2010 W/m²)	Defined by user requirement	Equivalent to 2.4 kW/m² (2410 W/m²)	Defined by user requirement
Thermal insulation	ICT equipment pod on all sides = R3.6 (inflow)	R3.6 (inflow)	ICT equipment pod on all sides = R3.6 (inflow)	R3.6 (inflow)
Equipment rack dimensions	700 mm x 1075 mm (4 no.)	Defined by user requirement	800 mm x 1075 mm (1 no.) 600 mm x 1075 mm (7 no.)	Defined by user requirement
Equipment rack units	168 no. for ICT equipment	Defined by user requirement	336 no. for ICT equipment	Defined by user requirement
Power usage efficiency (PUE)	1.31 (at full load utilisation; 1.54 at 50%)	Defined by user requirement	1.30 (at full load utilisation; 1.50 at 50%)	Defined by user requirement
Operating environment				
Outside ambient temperature	-20 °C to +49 °C	-20 °C to +49 °C	-20 °C to +49 °C	-20 °C to +49 °C
Outside relative humidity	0–100% RH	0-100% RH	0-100% RH	0-100% RH
Interior conditions	18-27 °C, 20-80% RH	18-27 °C, 20-80% RH	18-27 °C, 20-80% RH	18-27 °C, 20-80% RH
Internal conditions	Based on ASHRAE 2011 TC9.9 standard	Based on ASHRAE 2011 TC9.9 standard	Based on ASHRAE 2011 TC9.9 standard	Based on ASHRAE 2011 TC9.9 standard