Exos® Scale EX4U74 and DC4U100 Technical Specifications

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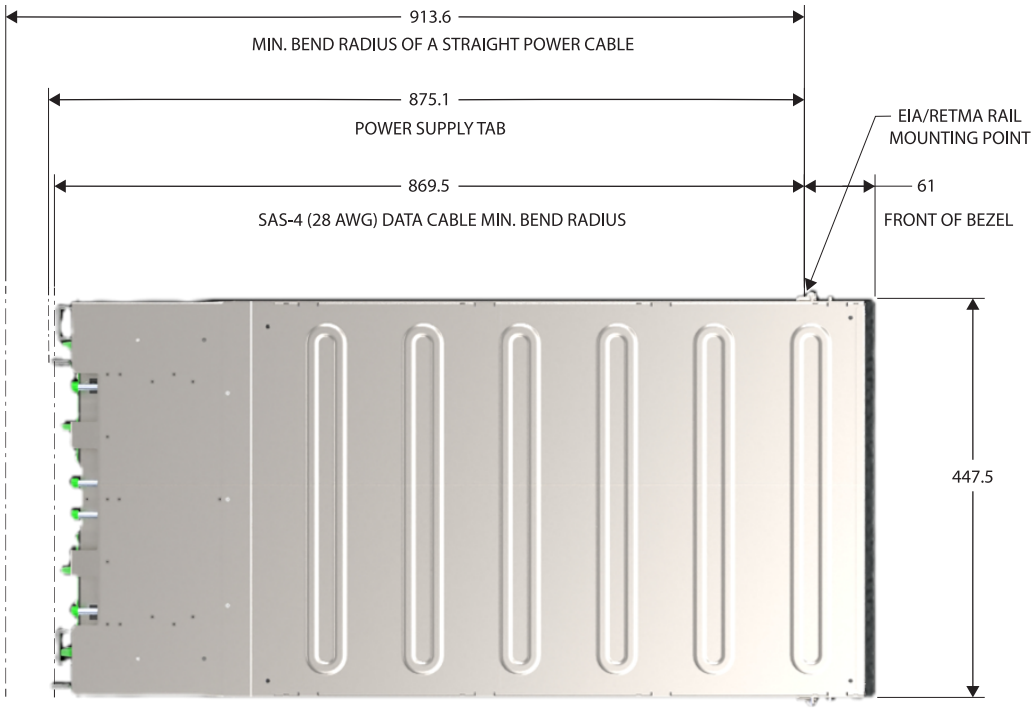
Enclosure dimensions

Table 1 Enclosure dimensions

Specification	4U100	4U74
	Metric (Imperial)	Metric (Imperial)
Height	175.7mm (6.92in)	175.7mm (6.92in)
Width	447.5mm (17.62in)	447.5mm (17.62in)
Depth	1151mm (45.43in)	936mm (36.85in)



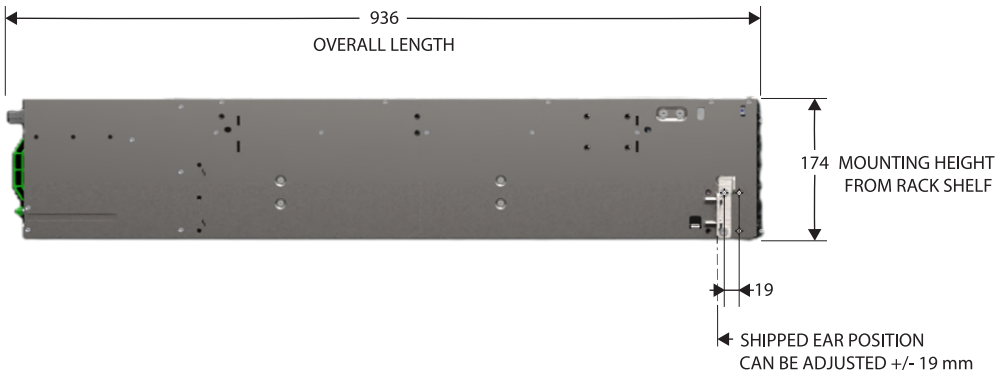


Figure 1 4U74 enclosure top and side views, dimensioned

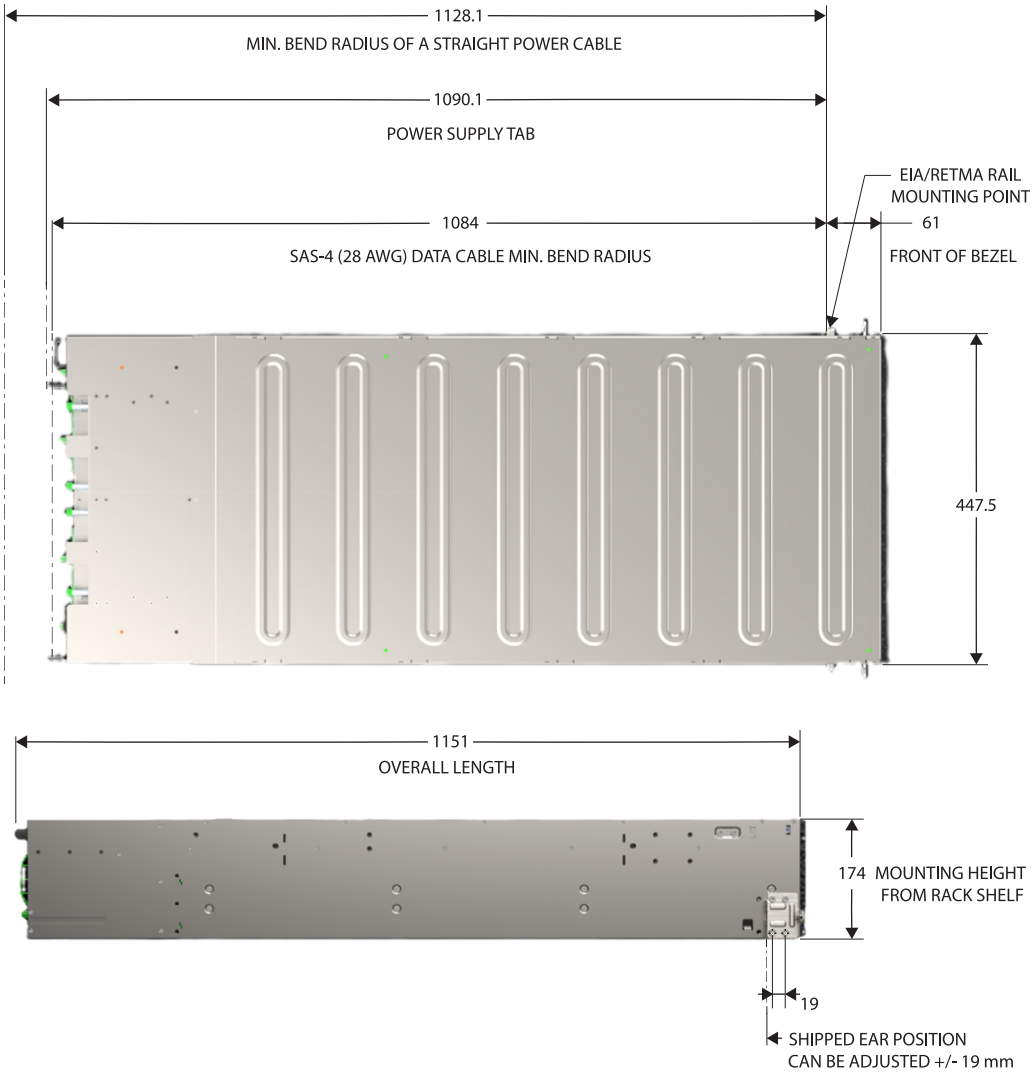


Figure 2 4U100 enclosure top and side views, dimensioned

Enclosure weights

Table 2 Enclosure weights

FRU/component	4U100	4U74
	Metric (Imperial)	Metric (Imperial)
Storage enclosure with all FRUs, excluding drives*	59.9kg (132 lb)	49.9kg (110 lb)
Storage enclosure with all FRUs including drives**	132kg (291lb)	103.3kg (227.7lb)
CRPS AC-DC 1800W PSU FRU	1.05kg (2.3lb)	1.05kg (2.3lb)
Fan module FRU	0.74kg (1.6lb)	0.74kg (1.6lb)
IOM controller FRU	0.34kg (0.75lb)	0.34kg (0.75lb)
Leaf expansion module (LEM) FRU	0.49kg (1.08lb)	0.49kg (1.08lb)
Rack shelf (left/right)	9.98kg (22lb)	9.98kg (22lb)
Accessory kit	2.27kg (5lb)	2.27kg (5lb)
*Enclosure weights do not include SAS, power, and serial cables as those can change due to the range of cable lengths.		
**Weights shown are nominal, and subject to variance. Drive weight varies depending on the model and capacity. Value used is the heaviest drive (720g/1.59lb) currently qualified for the Exos Scale EX4U74 and DC4U100.		

Power supply unit (PSU) specifications

Exos Scale EX4U74 and DC4U100 use industry standard CRPS power supplies to maintain quality and compatibility with our products. Seagate maintains revision control over the power supplies used in these products.

Table 3 PSU specifications

Specification	Measurement / description
CRPS	1800W, 80+ Titanium
Maximum output power	1800W
Voltage range	200–240 VAC rated
Frequency	50–60 Hz
Leakage current	<.583mA
Efficiency	96.0% peak, titanium efficiency rating
In-rush current	35Apk, cold start
*Artesyn CSU1800AT-3-100	

AC power cord and universal jumper cord specifications

Table 4 AC power cord and universal jumper cord specifications

1	United States and Canada	
	Must be NRTL Listed (National Recognized Test Laboratory – e.g. UL)	
	Cord type	SVT or SJT, 14 AWG, 3 conductors, 1.5 M minimum length
		NEMA 6–15P grounding-type attachment plug rated 250/15A
		or
		IEC 320, C-14, 250V, 10A
	Socket	IEC 320, C-13, 250V, 10A
2	General requirements: Europe and others	
	Cord type	Harmonized, H05-VVF, 10A, 250V, 14 AWG, 3 conductors
	Socket	IEC 320, C-13/C-14, 250V, 10A
IMPORTANT: The plug and the complete power cable assembly must meet the standards appropriate to the country and must have safety approvals acceptable in that country.		

- Countries include the US, Canada, EU/NEMA, Mexico, Argentina, AUS/NZ, Japan, South Korea, Brazil, Vietnam, China, India, and EAC.
- Standards include RoHS, VDE, and low halogen.

Environmental requirements

Table 5 Operating and non-operating requirements

Specification	Temperature range	Relative humidity
Operating	ASHRAE A2, 10°C to 35°C (50°F to 95°F), derate 1°C per 300m above 900m, 20°C/hr max rate of change. ASHRAE A3 under certain conditions*	–12°C DP min and 8% RH to 21°C DP max and 80% RH (non-condensing)
Non-operating	-40°C to +70°C (-40°F to +158°F) (Max rate of change: 20°C)	5% RH to 100% RH (non-condensing) and max 29°C DP
*ASHRAE A3 compliant, 5°C to 40°C, derate 1°C per 175m above 900m, <=9W per drive power consumptions (extreme conditions), with all fan units functional, for current and future HDD generations up to (including) Mozaic 4+.		

Table 6 Environmental specifications

Specification	Measurement / description
Airflow	System must be operated with low pressure rear exhaust installation. Back pressure created by rack doors and obstacles not to exceed 5Pa (0.5 mm H2O)
Altitude, operating	-100 to 3,048 meters (-328 to 10,000 feet). Maximum operating temperature is derated by 1°C for each 300 m above 900 m (2952.76 feet)
Altitude, non-operating	-100 to 12,192 m (-328 to 40,000 feet)
Shock, operating	5.0g, 11ms half sine 10 shocks in 6 directions 60 total
Shock, non-operating	Z axis: +20.0g, 7ms, 2 shock pulses X & Y Axis: +/- 12.0g half-sine, 11ms, 6 shocks each direction
Vibration, operating	0.18Grms 10 Hz to 500 Hz, 30 min each axis

Table 6 Environmental specifications (continued)

Specification	Measurement / description
Vibration, non-operating (rack mounted, castors)	Z axis: 0.78 gRMS, 30min, 5-200Hz, X & Y axis: 0.25 gRMS, 30 min, 5-200Hz
Acoustics*	@23°C ambient sound pressure 66dBA, @27°C ambient sound power 7.8Bels
Orientation and mounting: • Rack rails • Rack characteristics	1.2 m rack mount (4 EIA units) • To fit 1.2 m depth racks compliant with the SSI server rack specification • Back pressure not exceeding 5Pa (~0.5 mm H20)
*Measurements made using a fully populated enclosure using 9W HDDs at a nominal HDD workload.	

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