SPECIFICATION GUIDELINE FOR ES-SERIES ENCLOSURES
840ES2448
Full Specification
General
84" High X 24"Wide X 48" Deep
The enclosure must be Great Lakes product model #840ES2442
The enclosure must UL listed to UL60950-1 (Standard for Information Technology and Communications
Equipment, Cabinet, Enclosure & Rack Systems.) Dimensions shall be 84" High, 24" Wide & 48" Deep. Featuring
mesh contour doors, Plexiglas doors, split mesh doors, split fan doors, perimeter vented doors or solid doors,
locking lift-off side panels (solid or vented) removable solid, vented or fan top panels. Doors, sides & tops must be
16 Ga. The enclosure shall be constructed of cold rolled steel (CRS) utilizing a fully welded 14 Ga. steel frame
design with five bends in the corner post for superior strength. Shall be able to hold 2000 lbs on optional levelers,
casters or bolted to the floor. Shall have two pair of universal cage nut mounting rails that must be 19" EIA 310-D
compliant. Rails must be infinitely adjustable front to back. Networking of multiple enclosures must be possible
through the use of tool-less hardware. Manufacturer shall ship enclosure completely assembled including
accessories such as cable management, shelves, & power strips. (Assembly must be per customer's instructions if
provided) Manufacturer must be ISO 9001:2008 registered.

Floor Mounting The base unit frame shall have four separate floor mounting locations in the bottom. Threaded
studs 5/16 to accommodate set of four (4) plate casters, threaded ½-13 hole to accommodate leveling glides and ¾"
floor anchoring hole. Anti-tip option to be fully retractable. (casters, levelers & anti-tip legs are optional)

Rack Mounting   Mounting rails shall be #12 Ga. infinitely adjustable with 44 rack mount unit (RMU) markings
the complete length of the rail. RMU markings to start at bottom and count up. Universal (M6) rails shall be multi-
vendor server compliant. Rails shall be powder-coated and have pass through holes with cable management tie
down slots both vertical and horizontal.

Grounding   The base unit frame must have 10-32 x 1.5" copper plated grounding studs located in the top two
(2) and bottom two (2). All doors must include a minimum of two (2) #10-32 x .5" copper plated grounding studs
located at the top and bottom of the door. All side panels must include one (1) #10-32 x .5" copper plated grounding
stud located at the bottom of the side panel.

Cable Management   The base unit frame must accommodate optional vertical and horizontal cable management
lacing bar which is fully adjustable in the enclosure and allow for cable bundles in excess of 5". Rear must accept
vertical cable trough. (VCT cable trough series)
All 19" rack mount cable management must be installed at time of shipment.

Cable Access   The top panel shall be removable. Top cabinet frame shall have a cable knock-out in the rear that is
7"D x 16" W allowing for 112 square inches for cable access. Bottom to have four cable access openings. Middle
must have a cable access opening (minimum 8.36" x 23.25"). Rear must have a cable access opening (minimum
3.50" x 18.00" 63 sq. in.).This rear access shall have a minimum of six (6) cable clips. Rear corner posts shall have
side cable knock-outs to allow for enclosure to enclosure cable pass thru. They will be 3.25" x 34.00" and two (2)
per side.

Doors Mesh contour door must have easy latching door handle**.** All other doors must fit flush with the base and
swing open 180⁰. All doors must have three field reversible hinges using only the hardware provided. Mesh doors
shall be at least 64% open measured in useable EIA units. Door shall have lockable handles. Base unit

frames must have gasketing for the doors. The following doors must be available as options: Solid, split mesh, split fan, smoked Plexiglas, perimeter vented Plexiglas or mesh.

Side Panels The base unit frame must be able to accommodate locking, quick release, tool-less lift off side panels. Base unit frame must have gasketing for the side panels. The side panels should be flush with the base unit.

Top Panel   Top panels shall be removable. Options shall be solid, vented, three-fan low profile assembly and single or dual ten-inch fan assemblies. Panels to accept ladder rack bracket.

Hardware Enclosure shall ship with package of cage nut hardware. (M6 Cage nut & Screws)

Power The base unit frame must have the ability to mount three (3) vertical power strips mounted in each rear corner using button mounting. Front corner shall be able to accept one (1) power strip per side.

Quick Spec.
840ES2448
84" High X 24"Wide X 48" Deep
　　　　The enclosure must be Great Lakes product model #840ES2448 & be UL listed to UL60950-1
Enclosure frame must be fully welded and be constructed out of cold rolled steel (CRS) utilizing a fully welded 14 Ga. steel frame design with five bends in the corner post for superior strength.and be able to hold 2000 lbs on casters. Dimensions shall be 84"High, 24"Wide, 48" Deep.
　　　　Doors must fit flush with the base and swing open 180^0 and be 16 Ga. CRS. All doors must have three (3) field reversible hinges using only the hardware provided. Mesh doors shall be 64% open measured in useable EIA units. (mesh contour door does not fit flush).
　　　　Enclosure shall have two (2) pair of 12 Ga. universal cage nut mounting rails that are 19" EIA 310-D compliant. Rails must be infinitely adjustable and have (44) RMU markings counting from bottom up.
　　　　Enclosure frame must allow for optional leveling glides, casters, floor mounting. Enclosure shall have copper plated grounding studs on base unit doors, sides and tops.
　　　　Top panels shall be removable.
Enclosure shall have 112 sq. in. top rear cable knock out. Top also to have an additional six (6) cable access knock-outs. (Two (2) 3.38"x 7, four (4) 3.38" x 12") These opening must be able to accept optional brush grommet kit. The bottom shall have cable entry of 287 sq. in.
　　　　The base unit frame must be able to accommodate flush, gasketed, locking, quick release, tool-less lift off side panels.
　　　　Enclosure must accommodate optional vertical and horizontal cable management lacing bar that is fully adjustable in the enclosure. Rear corner post must be able to accept one (1) or two (2) vertical cable troughs.
All 19" rack mount cable management must be installed at time of shipment.
The base unit frame must have the ability to mount three (3) vertical power strips mounted in each rear corner using button mounting.
　　　　Networking of multiple enclosures must be able to be done by using tool-less hardware. Manufacturer shall ship enclosure completely assembled including accessories such as cable management, shelves, & power strips. (Assembly must be per customer's instructions if provided) Enclosure shall ship with package of cage nut hardware.
Manufacturer must be ISO 9001:2000 registered.