DEC25/NG "Next Generation" Digital Equipment Cabinet

Catalog Number	Height*	Width	Depth	Rack Spaces	Rack Width	Weight**
DEC25-8/NG	21.0-in.	25-in.	25-in.	8 x 1.75-in.	23.0-in.	82 lb.
	533-mm	635-mm	635-mm			36.4 kg
DEC25-17/NG	36.75-in	25.0-in.	25.0-in.	17 X 1.75-in.	23.0-in.	110 lb.
•	934-mm	635-mm	635-mm			48.8 kg
DEC25-27/NG	54.25-in in.	25.0-in.	25.0-in.	27 x 1.75-in.	23.0-in.	145 lb.
•	1378-mm	635-mm	635-mm			64.4 kg

^{*} To obtain the overall height of the cabinet, all three of these component heights must be added together.

	9	ions
Cabinet Pad-Mounting Options	Height*	Weight**
List 07 Pad-Mount Baseframe	11.0-in.	32 lb.
	533-mm	14.2 kg
List 08 Pad-Mount Feet	6.0-in.	10 lb.
	152-mm	4.4 kg

^{*} To obtain the overall height of the cabinet, both of these component heights must be added together.

^{**} To obtain the overall weight of the cabinet, both of these component weights must be added together.

_	ng Options	
Cooling Options	Height*	Weight**
Fan	5.75-in.	15 lb. /6.7 kg
Heat Exchanger	8.25-in.	30 lb. /13.3 kg
HVAC: 1500 BTU/Hr	14.25-in.	110 lb. /48.9 kg
HVAC: 3500 BTU/Hr	14.25-in.	110 lb. /48.9 kg
HVAC: 5500 BTU/Hr	18.0-in.	130 lb. /57.7 kg

^{*} To obtain the overall height of the cabinet, all of these component heights must be added together.



^{**} To obtain the overall weight of the cabinet, all three of these component weights must be added together.

^{**} To obtain the overall weight of the cabinet, all of these component weights must be added together.

DEC25/NG "Next Generation" Digital Equipment Cabinet

Specification	
Finish	Distinction and
	Platinum gray
Access	
	Front door
	Rear door
	Removable battery chamber panels
Cooling	
Options	Convection cooling kit
	330 cfm fan kit (-48, +24 vdc or 120 vac)
	Heat exchanger kit (600 watt or 1200 watt)
	HVAC kit (1500, 3500 or 5000 BTU)
Electrical	
Standard	4-in. x 4-in junction box with surge protector and GFI receptacle
Optional	4 or 8 position 120/240 vac, 60 Hz, load center
Alarms	
	High temperature = 49°C
	Low temperature = 5°C
	Front Door Intrusion
	Rear Door Intrusion
Mounting	
	Pad-mount (optional kits required)
	Pole-mount
	Wall-mount
Rack Space	
	Single, center mount 23-in. wide rack system (19-in. optional)
	1.75-in. EIA spacing standard (1.00-in. spacing optional)
	untapped holes for 12-24 hardware
	DEC25-8 = 14.00-in. of rack space (8 RU)
	DEC25-17 = 29.75-in. of rack space (17 RU)
	DEC25-27 = 47.25-in. of rack space (27 RU)
Approvals	
	CSA
	UL
	GR-487 (as applicable)



DEC25/NG "Next Generation" Digital Equipment Cabinet

Model Number	Part Number	List Number	Description
DEC25-8/NG DEC25-17/NG DEC25/27/NG	F787652 F787653 F787654	List 00	Common equipment wiring and assembly for a basic DEC25 cabinet. Including racks, wind latches, ground bar, single point cabinet ground lug, frame ground system, weather gasketing, insulation, document holder, lifting eyelets, solar shield
Next Generation DEC25 cabinet asse	emblies		Mounting brackets, alarm termination strip, grounded cable entry plate, (1) cable nozzle, assembly labour
		List 05	115 vac, 60 Hz Cabinet AC Kit; wiring and assembly of a 4-in. x 4-in. splice box, (1) 15 amp, 115 vac duplex receptacle and (1) 15 amp 115 vac GFI receptacle, (1) surge arrestor, sealed flexible AC conduit.
		List 06	220 vac, 50 hz Cabinet AC Kit; wiring and assembly of a 4-in. x 4-in. splice box, (1) 3 position AC terminal block, (1) Joslyn surge arrestor, sealed flexible AC conduit.
		List 07	11.00-in. Welded Pad-Mounting Base Assembly
		List 08	6.00-in. Pad-Mounting Feet Assembly
		List 09	Side Mounted, Pole-Mounting Kit
		List 12	Fixed Battery Tray for use with List 07 Base Frame
		List 20	DEC25 Alarm Kit e/w (2) intrusion alarms, (1) high temp alarm, (1) low temp alarm, (1) 8 pair screw down termination strip
		List 21	Cabinet Sealing Kit
		List 22	Cabinet Filter Kit
		List 29	Insulation Kit for the DEC25-17/NG
		List 41	Cabinet Entry and Installation Tool Kit
		List 45	+24 vdc fan kit for use in List 00
		List 46	-48 vdc fan kit for use in List 00
		List 47	120 vac fan kit for use in List 00
		List 50	8 amp, -48 vdc Modular Rectifier System
		List 51	2 amp, -48 vdc Rectifier Module for list 50
		List 52	Air Circulation Fan Rack System for list 50
		List 56	Battery Temperature Compensation Unit for list 50
		List 60	-48 vdc, 600 watt Heat Exchanger
		List 70	1500 BTU HVAC Kit
		List 71	3500 BTU HVAC Kit
		List 72	5000 BTU HVAC Kit
		List 75	Pole-Mount Chair Assembly Kit
		List 80	Battery Tray Heater Kit for list 12
		List 82	Slide Out Battery Tray for use with List 07 Base Frame
		List 84	Battery Tray Heater Kit for list 82
		List 86	4 Position, 30 amp, 120/240 vac Load Center
		List 95	110 pair Protection Panel Assembly
		List 100	18 amp, -48 vdc Modular Rectifier System
		List 105	60 amp, -48 vdc Modular Rectifier System
		List 120	8 Position, 60 amp, 120/240 vac Load Center

Emerson Network Power. The global leader in enabling business- critical continuity.	AC PowerConnectivityDC PowerEmbedded Computing	Embedded PowerMonitoringOutside PlantPower Switching & Controls	Precision CoolingRacks & Integrated CabinetsServicesSurge Protection
---	---	--	---

Emerson Network Power
Energy Systems
122 Edward Street
St. Thomas, Ontario N5P 1Z2
Telephone: 800-265-9243 Fax: 519-631-1994
EmersonNetworkPower.com/OSP

© 2007 Emerson Network Power Energy Systems, North America, Inc. All rights reserved.

The Emerson logo is a trademark and a service mark of Emerson Electric Co. Emerson Network Power is a division of Emerson Electric Co.

Printed in USA



MESA® 4 NxT Modular Electronic Sealed Architecture

Key Features

- Sealed design protects equipment from water and dust, while maintaining a cool operating environment
- Flexible design cabinet modules can be configured to accommodate most telephone, CATV, and wireless applications
- Powder paint process provides a harder finish while eliminating the release of harmful VOCs into the environment
- Separate battery compartment provides additional space for revenue-producing equipment and separates batteries from heat generating electronics
- Compartmentalized design for craft separation and configuration flexibility
- Low maintenance cabinet does not utilize any fans or filters that require routine maintenance
- Innovative cooling system keeps electronics from exceeding their optimal temperatures
- Meets all industry standard requirements — to ensure documented performance
- Telcordia GR-487 CORE Issue 2 compliant

Description

The MESA® 4 closure is the latest solution to today's outside plant demands. Due to the sophisticated nature of electronic systems being deployed in today's outside environment, efficient thermal management is increasingly critical to their operation. Emerson has created an innovative heat exchanger cooling system, which keeps electronics from exceeding their optimal temperatures, yet never introduces outside air and pollutants into the equipment chamber.

In addition, MESA® is designed to withstand the most severe environmental conditions, providing maximum protection for your equipment investment. MESA® is thoroughly tested against dust and water intrusion and exceeds even the most stringent industry standards.

MESA® is also extremely flexible. A modular approach is taken wherever possible so the cabinet can be quickly configured to meet your exact requirements. Optional "modules" include a battery drawer, commercial power panel, fiber splicing system, and overvoltage protection panels.

Application

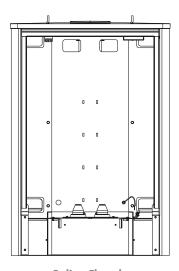
The MESA® 4 Cabinet can economically house a variety of next generation electronic equipment including Digital Loop Carriers (DLCs), fiber optic transport systems, and radio equipment for wireless applications.

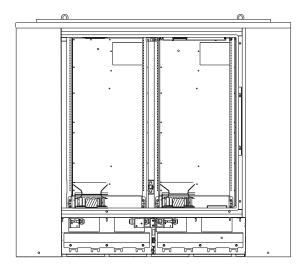


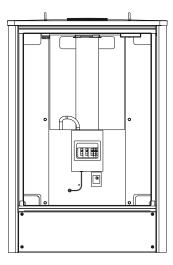


MESA® 4 NxT Modular Electronic Sealed Architecture

Dimensions			
Catalog Number	н	w	D
MESA® 4 (overall exterior dimensions)	75-in.	93-in.	46-in.
Chamber Area Dimensions			
Equipment Chamber (interior dimensions)	52.5-in.	55.5-in.	42-in.
End Chamber (splice & power chamber)	52.5-in.	42-in.	13.7-in.







Splice Chamber

MESA® 4 Front View

Power Chamber



MESA® 4 NxT Modular Electronic Sealed Architecture

Enclosure Mounting			
Enclosure	Pad-mounted		
Equipment Mounting			
Total mounting space	216-inches of rack space (two 49.5-inch and two 48-inch EIA rack units in the equipment chamber and one 21-inch mini rack in the power chamber)		
Hole spacing on racks	1.0-inch spacing (EIA 1.75-in spacing available) untapped holes for 12-24 thread forming hardware		
Rack widths	23-inch EIA standard		
Center mounting	Accepts standard 12-inch deep, center mount equipment (5-inch front, 7-inch rear)		
Environmental Protection			
Finish	Off-white, polyester powder coat		
Thermal Protection			
Heat exchanger	Two, 23-inch Heat Exchanger		
Temperature fans turn on at:	90° F		
High temperature alarm will sound at:	150° F		
Heat dissipation (based upon impedance of installed equipment)	3200/ 3600/ 4600 Watt options		
Electrical			
AC System	8-position power distribution panel with AC distribution to power shelf		
Convenience Outlets (GFCI protected)	Two in the equipment chamber (one per side) One each in the power chamber and splice chamber		
Battery heater pad kit (optional)	Thermostat control "On" at 40° F, "Off" at 60° F		
Compatible batteries & amp-hour reserve	Quantity (6) strings of 4-12 VDC 155 A-Hr front post batteries (48VDC string) FIAMM®, GNB, C & D, etc.		
Security			
Padlockable 216-type tool			
Intrusion alarm	Intrusion alarm with local indication and remote location options		
Bonding and Grounding			
	Two 10-position, dual holed L49, copper buss, 3/16-in. thick, 1/4-20 hardware. One each in power chamber and splice chamber		
Cable Entrance			
	Four, 4-inch cable entrance ports in splice chamber Two, 4-inch cable entrance ports in power chamber (cable dressing bracket provided with protection panel kit)		
Dimensions and Weights			
Overall Exterior (H x W x D)	75" x 93" x 46.0"		
Equipment Chamber (H x W x D)	52.5" x 55.5" x 42.0"		



DEC25/NG "Next Generation" Digital Equipment Cabinet

Key Features

- Sealed or Ventilated Design provides superior protection of equipment, cables, and splices
- Small, lightweight cabinets meet or exceed new "Urban Design Guideline" requirements
- Multiple Cooling Options cost effective solutions for any application
- Welded Aluminum
 Construction Dependable, durable, offering a long, corrosion-resistant, problem-free service life
- Flexible Design —
 Applications for wireless, wireline and CATV
- Modular Design —
 provides for craft separation and configuration flexibility



Description

The DEC25 "Next Generation" family of enclosures have been specifically designed with today's distributed network architecture in mind. New "urban design guidelines" now require network providers to make their POPs smaller, quieter and more cosmetically pleasing, while still maintaining the same levels of network reliability and service, as in the past. The DEC25 family offers the user the unique ability to customise your network deployment to meet these stringent new requirements. The different sizes, compact profiles, low operating noise levels, and clean lines make the deployment of the DEC25 family much easier than traditional larger enclosures.

Three sizes of the DEC25 are available. All enclosures are constructed of welded heavy gauge aluminium and are designed to withstand the most severe environmental conditions. They each will economically house a wide variety of sensitive electronic equipment in any outdoor environment.

The DEC25-8 is the smallest unit in the family measuring only 27" tall. The enclosure has (8) EIA 1.75" equipment rack space available for equipment mounting. The DEC25-8 is ideal for small remote sites where up to 150 individual lines may be required. The DEC25-17 is the mid-size unit and measures 42" tall. This enclosure has (17) EIA 1.75" equipment rack space available for equipment mounting. The DEC25-17 is ideal for remote sites where the line requirements could be as high as 384 individual ports. The largest unit in the family is the DEC25-27, which measures 60" tall. This enclosure has (27) EIA 1.75" equipment rack space available for equipment mounting. Again the DEC25-27 fits most applications needing more than 384 lines. Any of these cabinets can be pole or pad mounted using special mounting kits.

Depending on regulatory requirements, the external operating conditions and the equipment operating parameters, any of the DEC25 enclosures can be equipped with one of four optional cooling options. These include convection cooling, forced air cooling, heat exchanger cooling and HVAC cooling.

Application

The DEC25-8, DEC25-17 or DEC25-27 cabinets are a family of durable yet economical priced enclosures. They are specifically designed to house a wide variety of sensitive electronic equipment in any outdoor application. The cabinets are designed with optional cooling modules that allow equipment to be housed in a sealed, dust free environment. Or for applications where less stringent environmental requirements are needed, any of the cabinets can be equipped with less costly fans and baffles for cooling the cabinet. Our simple yet innovative cooling designs have been tested and verified to the highest industry standards.

Specific applications for the DEC25 family include: DSLAM adjunct sites, digital loop carrier systems, microwave sites, auxiliary battery cabinets, fibre optic hub sites and radio equipment cabinets for wireless applications.

