

DEC25/NG

“Next Generation” Digital Equipment Cabinet

■ Outside Plant for Business-Critical Continuity

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.

DEC25/NG “Next Generation” Digital Equipment Cabinet

Table A: Main Cabinet Equipment Chamber Dimensions

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

* To obtain the overall height of the cabinet, all three 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

Table B: Cabinet Pad-Mounting Dimensions

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

Table C: Cabinet Cooling 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 of these component weights must be added together

DEC25/NG “Next Generation” Digital Equipment Cabinet

Specifications

Finish

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

Ordering Information

Model Number	Part Number	List Number	Description
DEC25-8/NG	F787652	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
DEC25-17/NG	F787653		
DEC25/27/NG	F787654		
Next Generation DEC25 cabinet assemblies			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 Power
- Embedded Power
- Precision Cooling
- Connectivity
- Monitoring
- Racks & Integrated Cabinets
- DC Power
- **Outside Plant**
- Services
- Embedded Computing
- Power Switching & Controls
- Surge 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

