

Advantages:

- Harsh environment protection: NEMA 12/UL508, EMC FCC Class A

Three levels of protection: Model F4 (No-gasket), Model F5 (NEMA), Model F6 (EMC/NEMA)
51 dB shielding effectiveness, 30 to $1,000 \mathrm{MHz}$
Wide range of industry standard sizes and options.

- Tested performance to: UL, CSA, FCC, MIL-STD, and CISPR
- Modular design reduces installation, upgrade and service time.

Wide range of industry standard sizes and options.

- Custom design options with a standard platform and cost

Selection of contemporary color choices. (custom color matching also available)
Free assembly. Optima expertly, assembles your cabinet at no charge.

## F Series - Harsh Environment Cabinets



## Description

The $F$ series is based on a modular extrusion frame designs and is available in 3 versions to meet the demands of the application. The model F4 is a basic cabinet without gasketing. For application that require only dust and moisture control the model F5 is the appropriate choice. When the environment calls for both particle and EMC suppression the F 6 must be used. All versions feature an aluminum frame with integrated gasketing, corner castings, heavy duty door stiffening frame, multi-point locking system, windstops, and key locking door. With the choice of frame size, mounting rails, base, top panel, bottom panel, side panel, steel or glazed class doors, color and accessories the cabinet can be built with the features and appearance desired.

## Features:

- Modular extruded, aluminum frame (6063-T5 AL)
- Corner die casting (380 AL)
- NEMA 12 gasket: EPDM (Ethylene-Propylene-Diene)
- EMC gasket overlay: Two layers of double-knit, tin-plated, copperclad, steel mesh
- Multi-point locking system ( $2 \times 21^{\prime \prime}-42^{\prime \prime}, 4 \times 52^{\prime \prime}-77^{\prime \prime}$ )
- Standard Sizes (custom available on request)
o Widths: 19", 23" and 24"
o Heights: 12U, 16U, 20U, 24U, 30U, 35U, 40U, 44U
o Depths: $24{ }^{\prime \prime}, 30^{\prime \prime}, 36$ ",
- Independent, removable side, top panel, bottom panel and doors
- Concealed hinges with 112 deg swing (external 210 deg hinge optional)
- Key lock door standard
- Flammability rating: UL94
- Integrated cable management, power conditioning and cooling options


## Scope of Supply:

- Basic cabinet to include: $1 \times$ frame, $2 \times$ mounting rails (pairs, with 10 A clip nuts and panel screws), $1 \times$ base, $1 \times$ top panel, gasketing kit , painted and assembled.


Mounting Rail Options - for more detailed description/configuator see page 39
A) Standard (SR) 14 gauge (. $075^{\prime \prime}$ THK.) CRS
B) Heavy-duty Tapped 10-32 (UT) 11 gauge (. $119^{\prime \prime}$ THK.) CRS
C) Heavy-duty Punched (PR) 11 gauge (.119"THK.) CRS
D) Heavy-duty Tapped 10-32 (TR) 11 gauge (.119"THK.) CRS
E) Telecom Industry (TI) 11 gauge (. $119^{\prime \prime}$ THK.) CRS
F) IEC 60297-2 (Square hole) $12 / 14$ gauge (details page 38)


BASE OPTIONS - for more detailed description/configuator see page 38
A) Solid
B) Cable Egress

C) Casters
D) Levelers


Top Panel Options - for more detailed description/configuator see page 37

1) Solid Top (TS)
2) Perforated Top (PT)
3) Fan Cut-Out (TF)
4) Solid Quick-release Top (SQ) - CUSTOM


1


2


3


Bottom Panel Options - for more detailed description/configuator see page 38


SIDE PANEL - for more detailed description /conffguator see page 37


DOOR OPTIONS - for more detailed description/configuator see page 35

| 1,2 Door TYPE | 3,4 HEIGHT | 5,6 WIITH | 7,8 Hinge Side | 9,10 Ventlation | 11 Color |
| :---: | :---: | :---: | :---: | :---: | :---: |
| F4 $>$ No gasket F5 $>$ Nema F6 $>$ EMC, shielded FB $>$ Glazed, Nema FC $>$ Glazed EMC ZZ $>$ Custom |  |  | LH $>$ Left Hinged RH $>$ Right Hinged |  |  |



## EMI/RFI Version

- Plenum spot-welded to door
- 16 Ga.CRS, perforated
- .187" diameter holes on $45^{\circ}$ staggered centers



## NEMA 12/UL 508 Version

- Air filters are removable and washable in detergent
- Filter material: polyester urethane; UL 94-HF1 rated
- 1/2" thick core; 30 pores per inch
- Frame material: 18 ga. CRS



## Material Specification

Corner Die Casting

- Aluminum 380 Alloy

Extrusions

- Aluminum 6063-T5 Alloy


