

AC-DC DIN Rail

50-200 Watts DRF Series



THE **XP**ERTS IN POWER

Input 187-528 VAC 1Ø

Adjustable Output

High Peak Current Capability

Overvoltage Protection

Overcurrent Protection

International Safety Approvals

Specification

Input

Input Voltage	• 187-528 VAC single phase (264-746 DC)
Input Frequency	• 47-63 Hz
Input Current	• 1.1 A max @ 240 VAC
Inrush Current	• 25/50 A typical @ 240/480 VAC cold start +25 °C
Power Factor	• 0.98/0.93 typical at 240/480 VAC for DRF200
Leakage Current	• 0.75 mA max (1.5 mA DRF200)

Output

Output Voltage	• 24 VDC nominal
Output Voltage Adjustment	• ±10%
Minimum Load	• No minimum load required
Start Up Time	• 800 ms max with 240 VAC
Hold Up Time	• 10 ms (100 ms DRF200) typical at 240 VAC & 100% load
Drift	• ±100 mV max
Line Regulation	• 96 mV max
Load Regulation	• 150 mV 0-100% load, 480 mV max 0-peak load
Ripple & Noise	• 680 mV pk-pk max 20 MHz bandwidth & 100% load
Overvoltage Protection	• 115-150% of nominal rating, recycle input to reset 240 VAC & 100% load
Overcurrent Protection	• >105% of peak current, auto recovery
Temperature Coefficient	• 0.04%/°C
Thermal Protection	• Recycle input to reset

General

Efficiency	• 82% typical at 240 VAC
Isolation	• 3000 VAC Input to Output 2000 VAC Input to Ground 500 VAC Output to Ground
Switching Frequency	• 120 kHz PWM, 50 kHz PFC (DRF200)

Environmental

Operating Temperature	• -10 °C to +70 °C (+60 °C DRF200) Contact Technical Sales for derating
Storage Temperature	• -20 °C to +75 °C
Humidity	• 20-90% non condensing
Shock	• 20 G, 11 ms once on the X axis
Vibration	• 2 G 10-55 Hz 3 axis

EMC & Safety

Emissions	• EN55022 Level A conducted EN55022 Level A radiated
ESD Susceptibility	• EN61000-4-2 Level 2 (Level 4 DRF200)
Radiated Susceptibility	• EN61000-4-3 Level 3
EFT/Burst	• EN61000-4-4 Level 4
Surge	• EN61000-4-5 Level 3
Safety Approvals	• UL1950, cUL, EN60950, EN50178

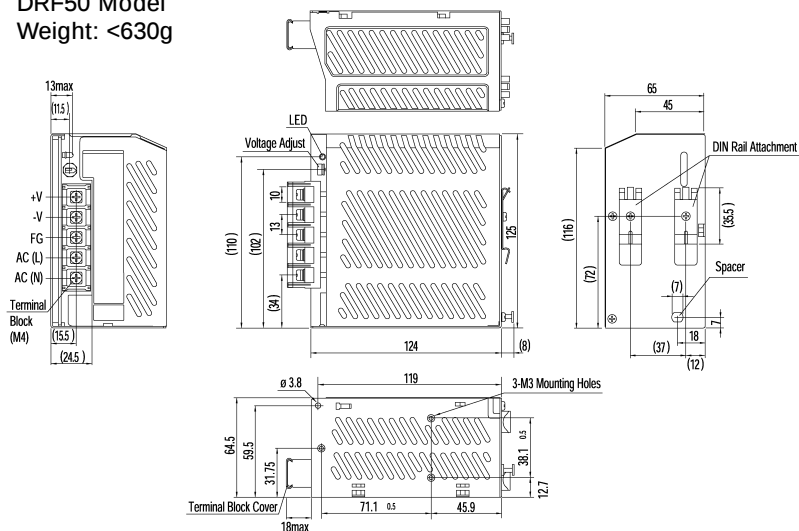
OUTPUT VOLTAGE & CURRENT RATINGS			DRF
Output Voltage	Output Current		Model Number
	Nominal	Peak(1)	
21.6 - 26.4 V	2.1 A	6.7 A	DRF50US24-N1
21.6 - 26.4 V	3.1 A	10.0 A	DRF75US24-N1
21.6 - 26.4 V	8.4 A	42.0 A	DRF200PS24-N1

Notes

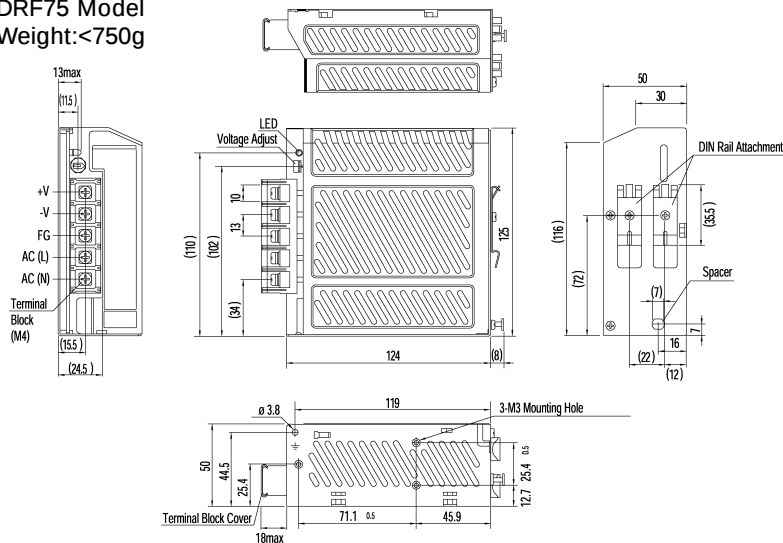
1. Peak current for 150 ms in every 30 second period. Only available with an input voltage of 240 to 528 VAC.

Mechanical Details

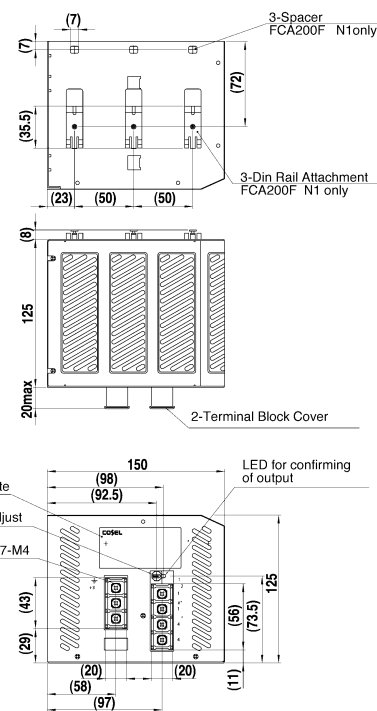
DRF50 Model
Weight: <630g



DRF75 Model
Weight: <750g



DRF200 Model
Weight: <1700g



Peak Loading Curves

NOTE: () for DRF200 models

