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FCA50F



Features

- Harmonic attenuator, PFC (Complies with IEC61000-3-2)
- High input voltage (AC187 - 528V)
- Peak load possible
- DIN Rail Attachment (Optional)
- Small and compact size
- RoHS Compliant

Safety Agency Approvals

UL1950 (FCA50F, 75F), UL60950 (FCA200F), C-UL, EN60950, EN50178 (FCA50F, 75F)

EMI Compliance

FCC-A, CISPR11-A, EN55011-A

CE Markings

LVD directive
EMC directive (FCA200F)

EMC Compliance

EN61000-4-2
EN61000-4-3
EN61000-4-4
EN61000-4-5
EN61000-4-6
EN61000-4-11
EN55011-A

Model	Input Voltage [V]	Output Wattage [W]	DC Output [V/A]
FCA50F-24	AC 187 - 528	50 (peak 160)	24V 2.1A (peak 6.7A)

3 year warranty(refer to Instruction Manual)

- ① Series name
- ② Output wattage
- ③ Universal input
- ④ Output voltage
- ⑤ Optional
N1 :with DIN rail attachment



RoHS



FCA

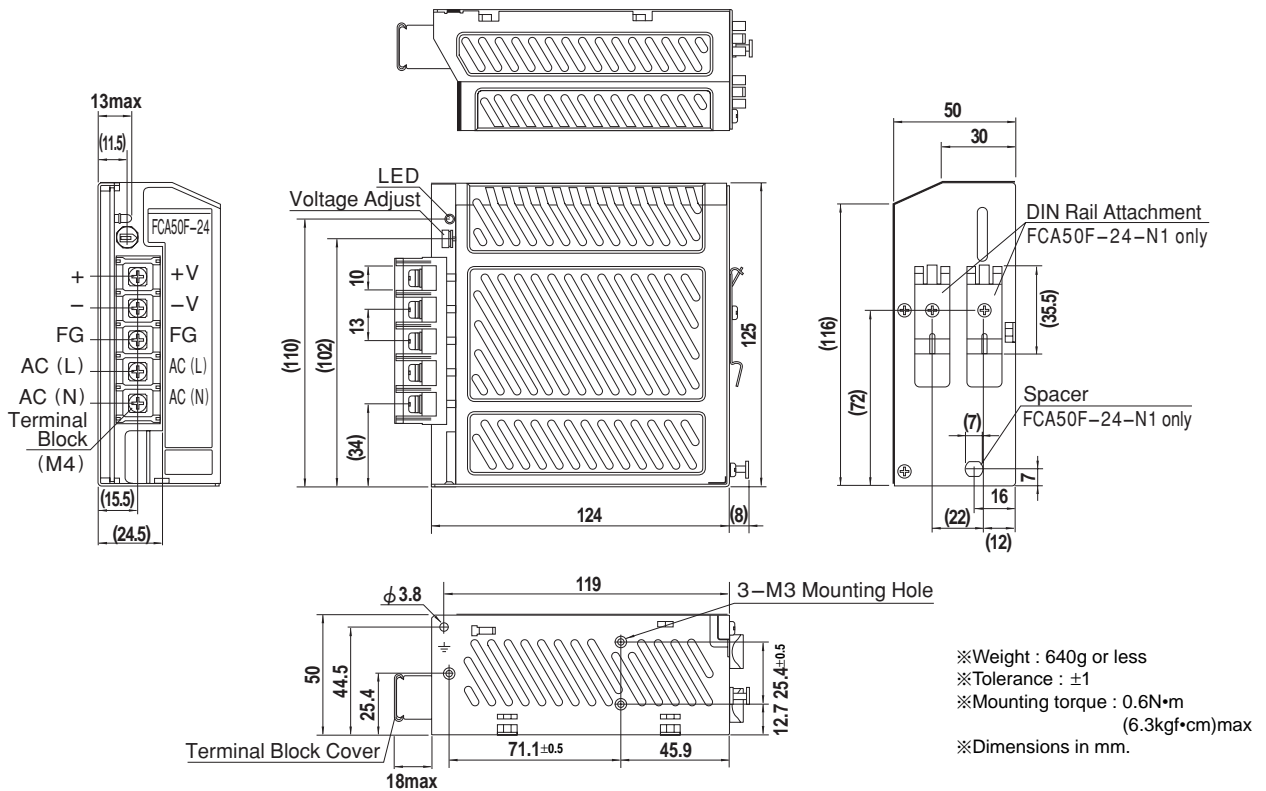
MODEL	FCA50F-24
MAX OUTPUT WATTAGE[W]	50(Peak 160)
DC OUTPUT	24V 2.1(Peak 6.7)A

SPECIFICATIONS

MODEL		FCA50F-24	
INPUT	VOLTAGE[V]	AC187 - 528 1 φ or DC265 - 746	
	CURRENT[A]	ACIN 240V	0.55typ
		ACIN 480V	0.30typ
	FREQUENCY[Hz]	50/60 (47 - 63)	
	EFFICIENCY[%]	ACIN 240V	82typ
		ACIN 480V	78typ
INRUSH CURRENT[A]	ACIN 240V	25typ (At cold start) (At Room Temperature)	
	ACIN 480V	50typ (At cold start) (At Room Temperature)	
LEAKAGE CURRENT[mA]	0.75max (60Hz, According to IEC60950)		
OUTPUT	VOLTAGE[V]	24	
	CURRENT[A]	*1 2.1 (Peak 6.7)	
	LINE REGULATION[mV]	96max	
	LOAD REGULATION[mV]	0 - 2.1A	150max
		0 - 6.7A	480max
	RIPPLE[mVp-p]	0 to +50°C *2	240max
		-10 - 0°C *2	320max
	RIPPLE NOISE[mVp-p]	0 to +50°C *2	680max
		-10 - 0°C *2	720max
	TEMPERATURE REGULATION[mV]	-10 to +50°C	600max
	DRIFT[mV]	*5	100max
START-UP TIME[ms]	800max (ACIN 240V, Io=100%)		
HOLD-UP TIME[ms]	10typ (ACIN 240V, Io=100%)		
OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	21.6 - 26.4		
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of peak current and recovers automatically	
	OVERVOLTAGE PROTECTION	Works at 115 - 140% of rating	
	OPERATING INDICATION	LED (Green)	
ISOLATION	INPUT-OUTPUT	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)	
	INPUT-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)	
	OUTPUT-FG	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)	
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE	-10 to +70°C, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max	
	STORAGE TEMP., HUMID. AND ALTITUDE	-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max	
	VIBRATION	*3 10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis	
	IMPACT	*3 196.1m/s ² (20G), 11ms, once each X, Y and Z axis	
SAFETY AND NOISE REGULATIONS	AGENCY APPROVALS	UL60950-1, C-UL, EN60950-1, EN50178	
	CONDUCTED NOISE	Complies with FCC-A, CISPR11-A, EN55011-A	
OTHERS	CASE SIZE/WEIGHT	*4 50 x 125 x 124mm (W x H x D) / 640g max	
	COOLING METHOD	Convection	

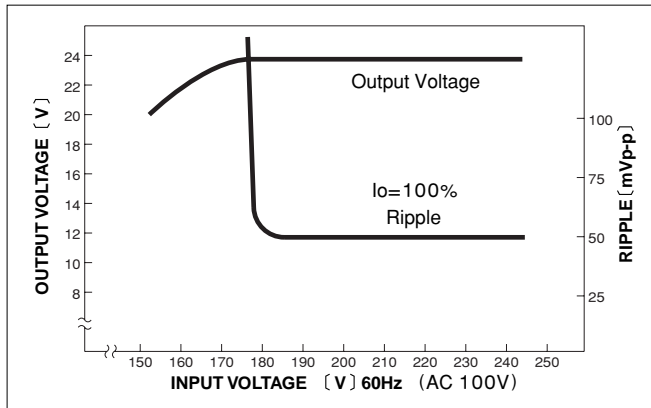
*1 Peak current for 150ms in a 30seconds period is acceptable.
 *2 In case of rated input/output(ACIN240-480V/2.1A), either the 20MHz oscilloscope or the ripple noise meter(equivalent to Keisokugiken:RM101) is used.
 *3 Option with DIN rail attachment(N1) is only for direction X(refer to sec4.2 in manual).
 *4 Depth of power supply is 132mm with DIN rail attachment.
 *5 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.

External view

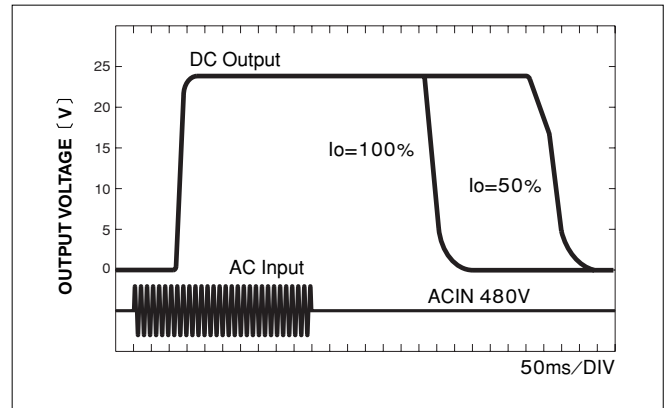


Performance data

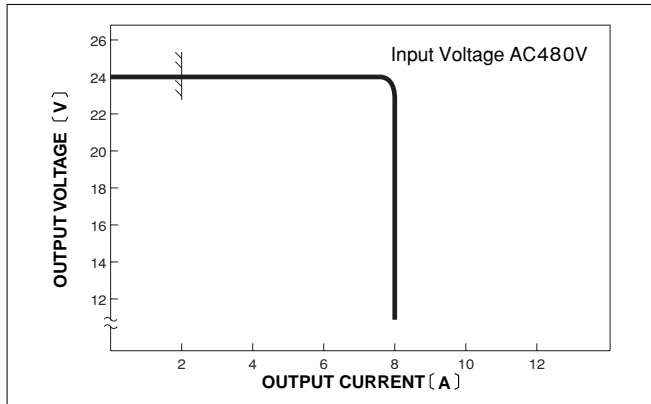
■STATIC CHARACTERISTICS



■RISE TIME & FALL TIME



■OVERCURRENT CHARACTERISTICS



■INRUSH CURRENT

