TUXS150F

TUX	S	150	F	50	-☐
①	②	③	④	⑤	⑥

c**RU**us △ TÜV Rheinland CE

RoHS

eco
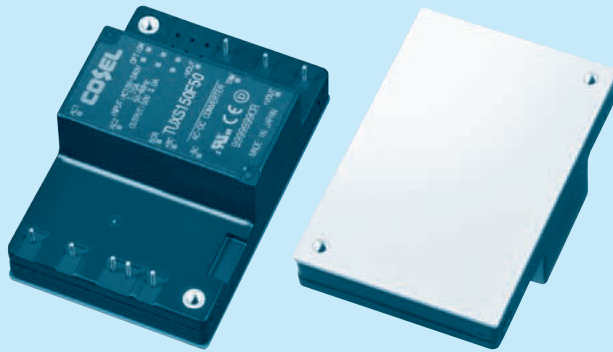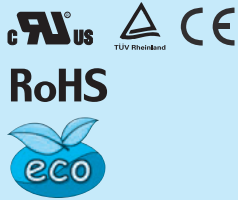
① Series name
② Single output
③ Output wattage
④ Universal Input
⑤ Output voltage
⑥ Optional
 T : with Mounting hole
 (φ3.4 thru)
 N : Auto restart in protection
 circuit working

＊Avoid short circuit between +BC and -BC. It may cause the failure of inside components.
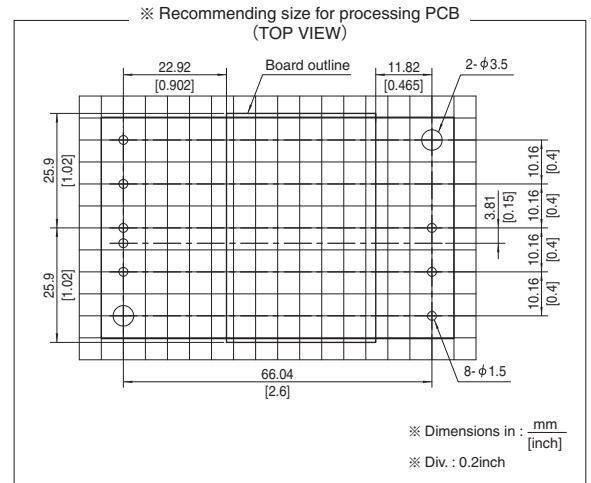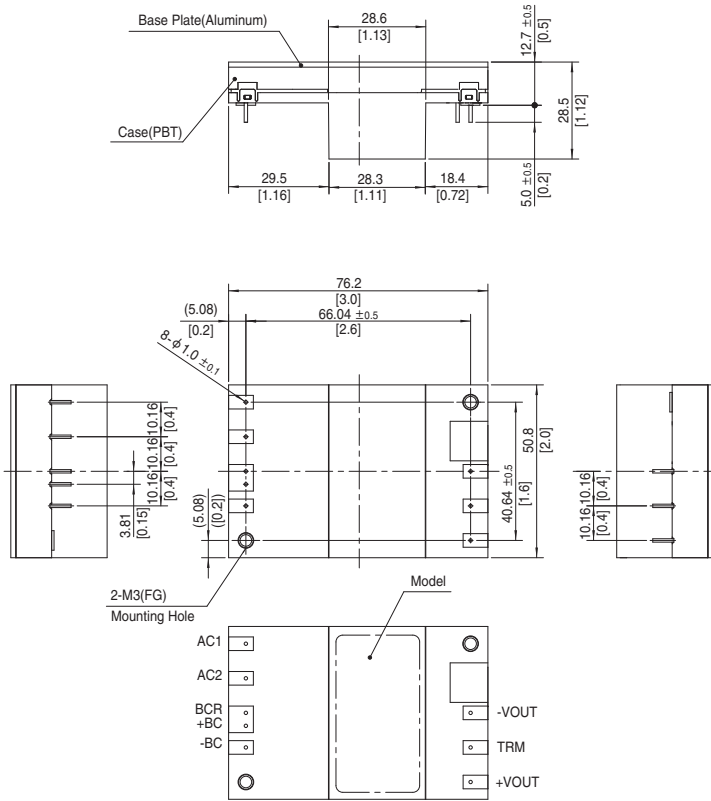＊Keep TRM open, if output voltage adjustment is not necessary.

MODEL	TUXS150F50
MAX OUTPUT WATTAGE[W]	150.0
DC OUTPUT	50V 3A

SPECIFICATIONS

	MODEL		TUXS150F50
INPUT	VOLTAGE[V]		AC85 - 264 1φ
	CURRENT[A]	ACIN 100V	1.70typ (Io=100%)
		ACIN 200V	0.80typ (Io=100%)
	FREQUENCY[Hz]		50/60 (45 - 66)
	EFFICIENCY[%]	ACIN 100V	93typ
		ACIN 200V	94typ
	POWER FACTOR (Io=100%)	ACIN 100V	0.96typ
		ACIN 200V	0.93typ
	INRUSH CURRENT		Limited by external components (Thermistor)
	LEAKAGE CURRENT[mA]		0.75max (ACIN 240V 60Hz, Io=100%, According to IEC60950-1)
OUTPUT	VOLTAGE[V]		50
	CURRENT[A]		3
	LINE REGULATION[mV]		100max
	LOAD REGULATION[mV]		100max
	RIPPLE[mVp-p]	-20 to +100℃ *1	200max
		-40 to -20℃ *1	300max
	RIPPLE NOISE[mVp-p]	-20 to +100℃ *1	200max
		-40 to -20℃ *1	300max
	TEMPERATURE REGULATION[mV]	0 to +100℃	500max
		-40 to +100℃	1000max
	DRIFT[mV]	*2	200max
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		Fixed (TRM pin open), adjustable by external resistor or external signal
			45.0 - 55.0
	OUTPUT VOLTAGE SETTING[V]		49.2 - 50.8
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically
	OVERVOLTAGE PROTECTION[V]		57.5 - 67.5
	REMOTE SENSING		Not provided
	REMOTE ON/OFF		Not provided
ISOLATION	INPUT-OUTPUT		AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)
	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)
	OUTPUT-FG		AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (20±15℃)
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE		-40 to +100℃ (On aluminum base plate), 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 4,000m (13,000 feet) max
	STORAGE TEMP.,HUMID.AND ALTITUDE		-40 to +100℃, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max
	VIBRATION		10 - 55Hz, 49.0m/s² (5G), 3minutes period, 60minutes each along X, Y and Z axis
	IMPACT		196.1m/s² (20G), 11ms, once each along X, Y and Z axis
SAFETY AND NOISE REGULATIONS	AGENCY APPROVALS		UL60950-1, C-UL (CSA60950-1), EN60950-1, EN50178
	HARMONIC ATTENUATOR		Complies with IEC61000-3-2 (Class A) *3
OTHERS	CASE SIZE/WEIGHT		76.2×28.5×50.8mm [3.0×1.12×2.0 inches] (W×H×D) / 150g max
	COOLING METHOD		Conduction cooling (e.g. heat radiation from the aluminum base plate to the attached heat sink)

＊1　Refer to instruction manual for measuring method of electric characteristics.
＊2　Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25℃, with the input voltage held constant at the rated input/output.
＊3　Please contact us about another class.

TUXS150F | COSEL

Base Plate(Aluminum)

28.6 [1.13]

12.7 ±0.5 [0.5]

Case(PBT)

28.5 [1.12]

29.5 [1.16]

28.3 [1.11]

18.4 [0.72]

5.0 ±0.5 [0.2]

76.2 [3.0]

(5.08) [0.2]

66.04 ±0.5 [2.6]

8- φ 1.0 ±0.1

10.16 10.16 10.16 [0.4] [0.4] [0.4]

50.8 [2.0]

3.81 [0.15]

10.16 10.16 [0.4] [0.4]

(5.08) [0.2]

40.64 ±0.5 [1.6]

10.16 10.16 [0.4] [0.4]

2-M3(FG) Mounting Hole

Model

AC1

AC2

BCR +BC

-BC

-VOUT

TRM

+VOUT

※ Recommending size for processing PCB （TOP VIEW）

22.92 [0.902]

Board outline

11.82 [0.465]

2- φ 3.5

25.9 [1.02]

10.16 [0.4]

3.81 [0.15]

10.16 [0.4]

25.9 [1.02]

10.16 [0.4]

10.16 [0.4]

66.04 [2.6]

8- φ 1.5

※ Dimensions in : mm / [inch]

※ Div. : 0.2inch

※ Tolerance : ± 0.3 [± 0.012]
※ Weight : 150g max
※ Dimensions in mm, [ ]=inches
※ Mounting hole screwing torque : 0.49N/m (5.0kgf/cm) max