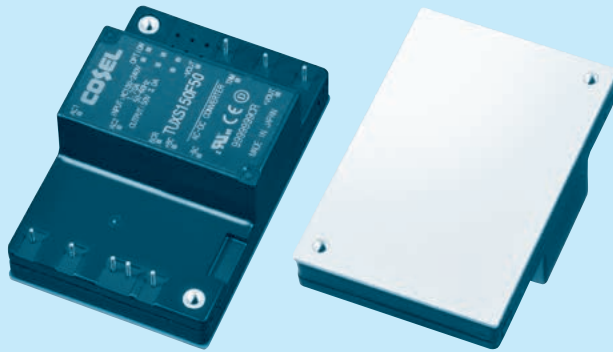


# TUXS150F

TUX S 150 F 50 -□

① ② ③ ④ ⑤ ⑥



- ① Series name
- ② Single output
- ③ Output wattage
- ④ Universal Input
- ⑤ Output voltage
- ⑥ Optional
  - T : with Mounting hole (φ 3.4 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.

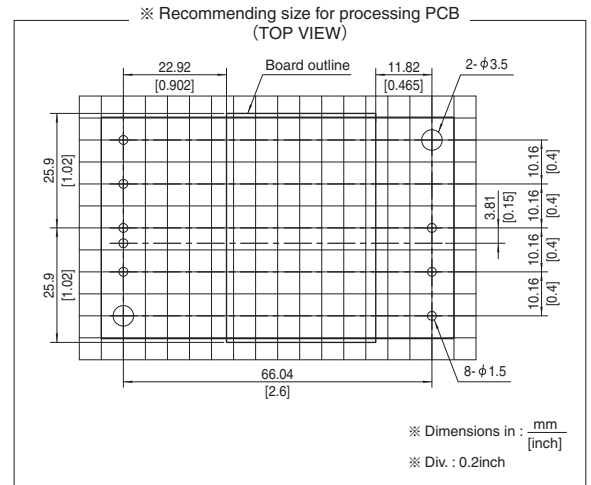
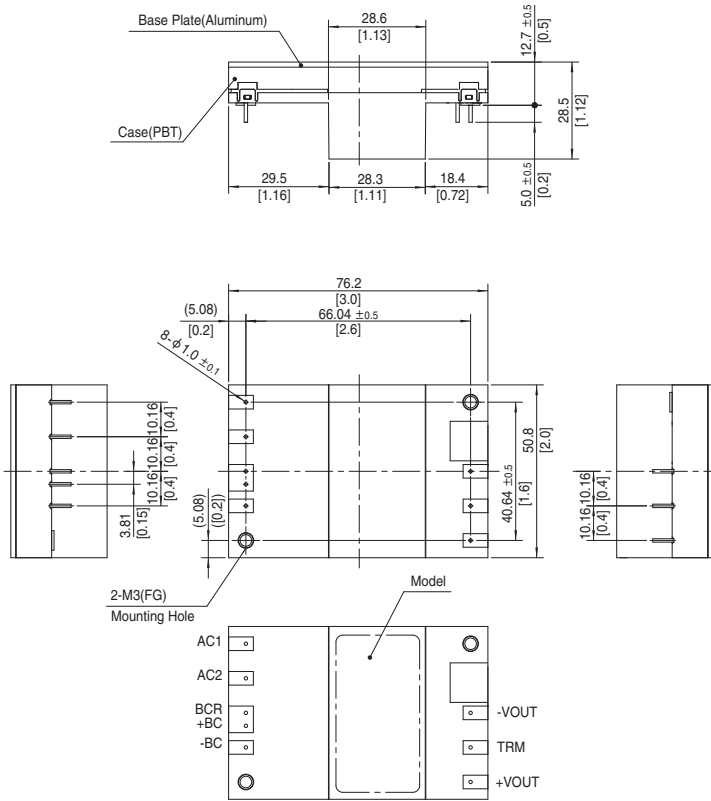
MODEL	TUXS150F50
MAX OUTPUT WATTAGE[W]	150.0
DC OUTPUT	50V 3A

## SPECIFICATIONS

MODEL		TUXS150F50	
INPUT	VOLTAGE[V]	AC85 - 264 1 φ	
	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°C *1	200max
		-40 to -20°C *1	300max
	RIPPLE NOISE[mVp-p]	-20 to +100°C *1	200max
		-40 to -20°C *1	300max
	TEMPERATURE REGULATION[mV]	0 to +100°C	500max
		-40 to +100°C	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°C)	
	INPUT-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C)	
	OUTPUT-FG	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (20±15°C)	
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE	-40 to +100°C (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°C, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max	
	VIBRATION	10 - 55Hz, 49.0m/s <sup>2</sup> (5G), 3minutes period, 60minutes each along X, Y and Z axis	
	IMPACT	196.1m/s <sup>2</sup> (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°C, with the input voltage held constant at the rated input/output.  
 \*3 Please contact us about another class.

## External view

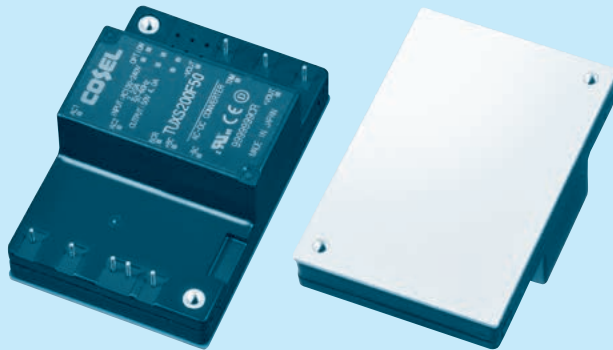


- ※ Tolerance :  $\pm 0.3$  [ $\pm 0.012$ ]
- ※ Weight : 150g max
- ※ Dimensions in mm, [ ]=inches
- ※ Mounting hole screwing torque : 0.49N/m (5.0kgf/cm) max

# TUXS200F

TUX S 200 F 50 -□

① ② ③ ④ ⑤ ⑥



- ① Series name
- ② Single output
- ③ Output wattage
- ④ Universal Input
- ⑤ Output voltage
- ⑥ Optional
  - T : with Mounting hole (φ 3.4 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.

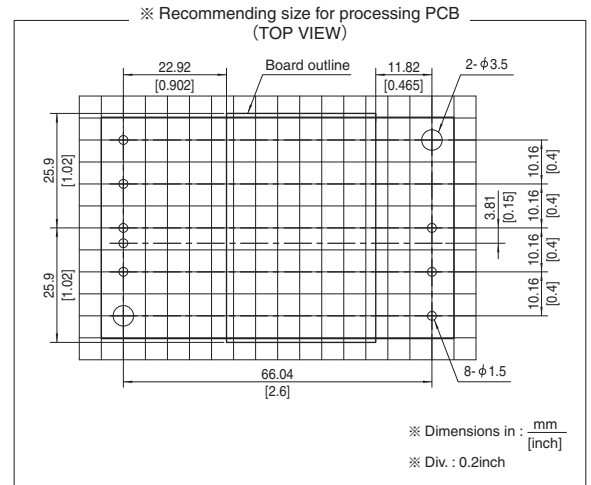
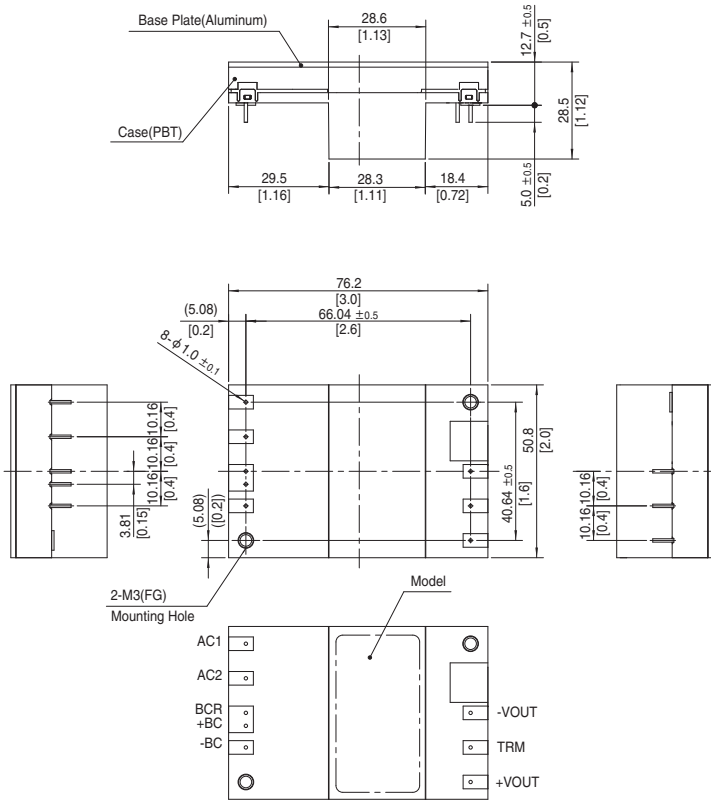
MODEL	TUXS200F24	TUXS200F28	TUXS200F32	TUXS200F42	TUXS200F50
MAX OUTPUT WATTAGE[W]	199.2	196.0	198.4	197.4	200.0
DC OUTPUT	24V 8.3A	28V 7.0A	32V 6.2A	42V 4.7A	50V 4.0A

## SPECIFICATIONS

	MODEL	TUXS200F24	TUXS200F28	TUXS200F32	TUXS200F42	TUXS200F50	
INPUT	VOLTAGE[V]	AC85 - 264 1 φ					
	CURRENT[A]	ACIN 100V	2.20typ (Io=100%)				
		ACIN 200V	1.10typ (Io=100%)				
	FREQUENCY[Hz]	50/60 (45 - 66)					
	EFFICIENCY[%]	ACIN 100V	90typ	90typ	91typ	91typ	92typ
		ACIN 200V	91typ	91typ	92typ	92typ	93typ
	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]	24	28	32	42	50	
	CURRENT[A]	8.3	7.0	6.2	4.7	4.0	
	LINE REGULATION[mV]	48max	56max	64max	84max	100max	
	LOAD REGULATION[mV]	48max	56max	64max	84max	100max	
	RIPPLE[mVp-p]	-20 to +100°C *1	144max	168max	192max	252max	300max
		-40 to -20°C *1	192max	224max	256max	336max	400max
	RIPPLE NOISE[mVp-p]	-20 to +100°C *1	144max	168max	192max	252max	300max
		-40 to -20°C *1	192max	224max	256max	336max	400max
	TEMPERATURE REGULATION[mV]	0 to +100°C	240max	280max	320max	420max	500max
		-40 to +100°C	480max	560max	640max	820max	1000max
	DRIFT[mV]	*2	96max	112max	128max	168max	200max
OUTPUT VOLTAGE ADJUSTMENT RANGE[V]	Fixed (TRM pin open), adjustable by external resistor or external signal						
OUTPUT VOLTAGE SETTING[V]	21.60 - 26.40	25.20 - 30.80	28.80 - 35.20	37.80 - 46.20	45.00 - 55.00		
	23.62 - 24.38	27.55 - 28.45	31.49 - 32.51	41.33 - 42.67	49.20 - 50.80		
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically					
	OVERVOLTAGE PROTECTION[V]	27.60 - 28.80	32.20 - 33.60	36.80 - 38.40	48.30 - 50.40	57.50 - 60.00	
	REMOTE SENSING	Not provided					
	REMOTE ON/OFF	Not provided					
ISOLATION	INPUT-OUTPUT	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C)					
	INPUT-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C)					
	OUTPUT-FG	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (20±15°C)					
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE	-40 to +100°C (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°C, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max					
	VIBRATION	10 - 55Hz, 49.0m/s <sup>2</sup> (5G), 3minutes period, 60minutes each along X, Y and Z axis					
	IMPACT	196.1m/s <sup>2</sup> (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°C, with the input voltage held constant at the rated input/output.  
 \*3 Please contact us about another class.

## External view



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