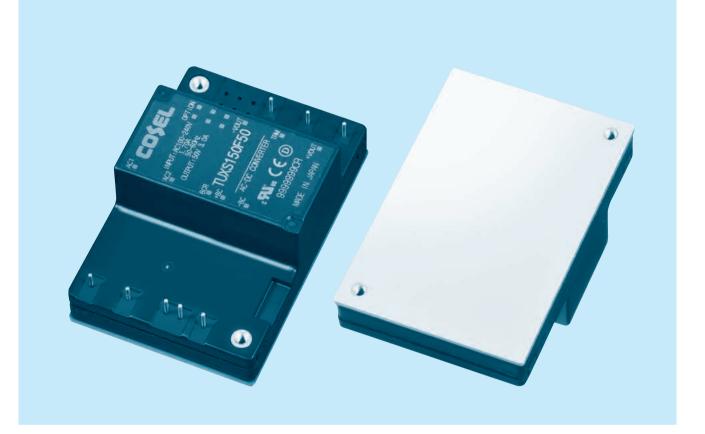
AC-DC Power Supplies Power Module Type







TUXS-series



÷+++

Feature

AC-DC Power Module Type Converter Harmonic attenuator (Complies with IEC61000-3-2 class A) Small size Built-in overcurrent, overvoltage and thermal protection circuits Mounting hole (M3 tapped) High efficiency 94%

CE marking

Low voltage directive RoHS Directive

Safety Approval

UL60950-1, C-UL, EN60950-1

5-year warranty



*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

VOLTAGE[V] AC85 - 264 1 é CURRENT[A] ACIN 100V 1.70typ (10=100%) ACIN 2007 ACIN 2007 0.60typ (10=100%) FREQUENCY[Hz] 50/60 (45 - 66) 6 EFFICIENCY[%] ACIN 2007 93typ ACIN 2007 ACIN 2007 94typ POWER FACTOR (b=100%) ACIN 2007 94typ ACIN 2007 94typ ACIN 2007 INRUSH CURRENT Limited by external components (Thermistor) 1 LEAKAGE CURRENT[mA] 0.75max (ACIN 240V 60Hz, Io=100%, According to IEC60950-1) 0 CURRENT[A] 3 1 1 LINE REGULATION[mV] 100max 1 400 #002 LOAD REGULATION[mV] 100max 1 400 #002 400 #002 OUTPUT RIPPLE[mVp-p] 40 #000 300max 1 40 #000 100max OUTPUT VOLTAGE ADJUSTIENT RANGENT 200max 1 40 #0 #000 100max 1 40 #0 #000 100max OUTPUT VOLTAGE ADJUSTIENT RANGENT 1000max 1 10 #0 #000 10 #0 #000 </th <th></th> <th>MODEL</th> <th></th> <th>TUX\$150F50</th>		MODEL		TUX\$150F50				
CURRENT(A) A0N 100/ A0N 200/ A0N 200/ A0N 200/ PREQUENCY[Hz] 1.70by [0c=100%] A0N 200/ 30by		VOLTAGE[V]						
CURRENT[A] AGN 2007 0.800/pc (loc=100%) FREQUENCY[H2] 5060 (ds - 66) EFFICIENCY[%] ADN 2007 941/p POWER ACTOR (loc=100%) ADN 2007 941/p POWER ACTOR (loc=100%) ADN 2007 0.950/p POWER ACTOR (loc=100%) ADN 2007 0.950/p INRUSH CURRENT[TA] 0.950/p LEAKAGE CURRENT[TM] 0.75max (ACIN 2407 60Hz, loc=100%, According to IEC60950-1) VOLTAGE[V] 50 VOLTAGE[V] 50 LINE REGULATION[[TV] 100max LOAD REGULATION[[TV] 100max LOAD REGULATION[[TV] 100max HIPPLE[mVp-p] 40 ± 400 40 ± 400 300max TEMPEADURE REGULATION[[TV] 100max			ACIN 100V					
PREQUENCY[Hz] 50/60 (45 - 66) EFFICIENCY[%] ACIN 100/ ACIN 200/ 401 200/ ACIN		CURRENT[A]	ACIN 200V					
NPUT EFFICIENCY[%] Δ(N 100V AL(N 200V) 93typ POWER FACTOR (le-100%) Δ(N 100V) 94typ POWER FACTOR (le-100%) Δ(N 100V) 93typ INRUSH CURRENT Limited by external components (Thermistor) LEAKAGE CURRENT[mA] 0.75max (ACIN 240V 60Hz, lo=100%, According to IEC60950-1) VOLTAGE[V] 50 CURRENT[A] 3 LINE REGULATION[mV] 100max LINE REGULATION[mV] 100max RIPPLE[mVp-p] 40 ± 40°-1 40 ± 40°-1 300max 100FM 0 ± 40°-1 00max 0 ± 40°-100° 00TPUT V0LTAGE ADUSTNEHT ANARCH 200max 01TPUT V0LTAGE SETTING(V) 7.5 - 6.7.5 00TPUT V0LTAGE SETTING(V) 7.5 - 6.7.5 00TPUT V0LTAGE SETTING(V) 7.5 - 6.7.5 00TPUT V0LTAGE SETSING Not provided REMOTE CONOFF Not provided REMOTE CONOFF								
NPUT EFF(ClENCY[%] ACN 200/ ACN 200/ POWER FACTOR (lo=100%) ACN 200/ ACN		ACIN 10						
POWER FACTOR (to-10%) ACN 100/ ANN 200 0.98/yp INRUSH CURRENT Limited by external components (Thermistor) LEAKAGE CURRENT[mA] 0.75max (ACIN 240V 60Hz, lo=100%, According to IEC60950-1) VOLTAGE[V] 50 CURRENT[A] 3 LINE REGULATION[mV] 100max LOAD REGULATION[mV] 100max LOAD REGULATION[mV] 100max RIPPLE(mVp-p) 40 ± 400-1 40 ± 400-1 30max 100max 100max 0UTPUT 40 ± 400-1 100max 100max 40 ± 400-1 30max 100max 100max 0UTPUT VOLTAGE ADUSTINENT RANGEY 40 ± 400-1 00rmax 00max 0UTPUT VOLTAGE SETTINGY 49.2 ± 50.8 0UTPUT VOLTAGE ADUSTINENT RANGEY 57.5 ± 67.5 0UTPUT VOLTAGE SETTINGY 49.2 ± 50.8 VERFOUTAGE ROTECTION Vorks over 105% of rating and recovers automatically VOFENOTAGE ROTECTION/VI 57.5 ± 67.5 REMOTE SENSING Not provided REMOTE SENSING AC2000V Iminute, Cutoff curren	INPUT	EFFICIENCY[%]	ACIN 200V					
POWER FACTOR (ic-100%) ACIN 2000 0.933yp INRUSH CURRENT Limited by external components (Thermistor) LEAKAGE CURRENT[MA] 0.75max (ACIN 240V 60Hz, lo=100%, According to IEC60950-1) VOLTAGE[V] 50 CURRENT[A] 3 LIAN ER GULATION[mV] 100max LOAD REGULATION[mV] 100max LOAD REGULATION[mV] 100max RIPPLE[mVp-p] 40±400* 40±400* 200max 40±400* 40±400* 0urput votrace Abustitemer Regulationer 55:0 0urput votrace Abustitemer Regulationer 40±5:0 0urput votrace Abustitemer Rotectroner Fixed (TEM pin open), adjustable by external resistor or external signal 0urput votrace Abustitemer Rotectroner 40±5:0 0urput votace Abustite PROTECTION(V) 57:5 - 67.5								
INRUSH CURRENT Limited by external components (Thermistor) LEAKAGE CURRENT[mA] 0.75max (ACIN 240V 60Hz, Io=100%, According to IEC60950-1) VOLTAGE[IV] 50 CURRENT[A] 3 LINE REGULATION[mV] 100max LOAD REGULATION[mV] 100max RIPPLE[mVp-p] 40±-40± 40±-40± 200max 40±-40± 200max 40±-40± 200max 100max 200max 1000max 000max 00FFT[mV] 40±-40± 1000max 00max 00FFT[mV] 40±-40± 1000max 00max 00FFT[mV] 42±-50.8 00FFT[mV] 57.5 -67.5 REMOTE SENSING Not provided REMOTE SONOFF Not provided REMOTE SONOFF <td></td> <td>POWER FACTOR (lo=100%)</td> <td></td> <td>71</td>		POWER FACTOR (lo=100%)		71				
LEAKAGE CURRENT[mA] 0.75max (ACIN 240V 60Hz, Io=100%, According to IEC60950-1) VOLTAGE[V] 50 CURRENT[A] 3 LINE REGULATION[mV] 100max LOAD REGULATION[mV] 100max RIPPLE[mVp-p] 20/max 40/max 200max 40/max 300max BIPPLE[mVp-p] 20/max 40/max 300max TEMPEATURE REGULATION[mV] 200max 40/max 300max DIFT[mV] 40/max 200max 300max 0UTPUT VOLTAGE ADJUSTNENT RANGELY Fixed (TRM pin open), adjustable by external resistor or external signal 0UTPUT VOLTAGE ADJUSTNENT RANGELY 40/max 75.5 67.5 REMOTE ON/OFF Not provided REMOTE SENSING Not provided REMOTE ON/OFF Not provided INPUT-FG ACS00V 1minute, Cutoff current = 10mA, DCS00V 50MΩ min (20±15°C) OUTPUT-FG ACS00V 1minute, Cutoff current = 10mA, DCS00V 50MΩ min (20±15°C) OUTPUT-FG ACS00V 1minute, Cutoff current = 10mA, DCS00V 50MΩ min (20±15°C) OUTPUT-FG		INRUSH CURRENT						
VOLTAGE[V] 50 CURRENT[A] 3 LINE REGULATION[mV] 100max LOAD REGULATION[mV] 100max LOAD REGULATION[mV] 100max LOAD REGULATION[mV] 100max LOAD REGULATION[mV] 100max RIPPLE[mVp-p] 40±30:a Win00:a 200max TEMPERTURE REGULATION[mV] 300max 0b+100:a 300max 0b+100:a 300max 10b+100:a 300max 0b+100:a 300max 10b+100:a 300max 10b+100:a 300max 10b+100:b 300max 10b+100:b 300max 10b+100:b 200max 10b+100:b 100max 00TPUT VOLTAGE ADJUSTNENT RANGELY Fixed (TRM pin open), adjustable by external resistor or external signal 0UTPUT VOLTAGE SETTING[V] 49.2 - 50.8 0UTPUT VOLTAGE SETTING[V] 49.2 - 50.8 OVERCURRENT PROTECTION Works over 105% of rating and recovers automatically OVERVOLTAGE PROTECTION[V] 57.5 - 67.5 S			T[mA]					
CURRENT[A] 3 LINE REGULATION[mV] 100max LOAD REGULATION[mV] 100max LOAD REGULATION[mV] 100max RIPPLE[mVp-p] 40b+40c+ 200max 40b+30c+ 200max 40b+30c+ 200max 40b+30c+ 200max 40b+30c+ 300max 10b+100c 500max 10b+100c+ 200max 10b+100c+ 500max 10b+100c+ 500max 10b+100c+ 1000max 10b+100c+ 500max 10b+100c+ 500max 10b+100c+ 1000max 10b+100c+ 1000max 10b+100c+ 200max 00TPUT V0LTAGE ADJUSTMENT RANGEVJ Fixed (TRM pin open), adjustable by external resistor or external signal 45.0 - 55.0 00TPUT V0LTAGE ADJUSTMENT RANGEVJ 0VERCURRENT PROTECTION Works over 105% of rating and recovers automatically 0VERCURAGE PROTECTION Works over 105% of rating and recovers automatically 0VERCURAGE PROTECTION Works over 105% of rating and recovers automatically								
LINE REGULATION[mV] 100max LOAD REGULATION[mV] 100max LOAD REGULATION[mV] 100max RIPPLE[mVp-p] 40b+40C+1 40b+40C+1 200max RIPPLE[mVp-p] 40b+40C+1 40b+40C+1 200max RIPPLE NOISE[mVp-p] 40b+40C+1 40b+40C+1 200max TEMPERATURE REGULATION[mV] 40b+40C+1 40b+40C+1 200max 40b+40C+1 200max <t< td=""><td></td><td></td><td></td><td></td></t<>								
OUTPUT LOAD REGULATION[mV] 100max RIPPLE[mVp-p] 200max 200max 4016-30C+ 300max 4016-100C+ 500max 4016-100C+ 500max 4016-100C+ 500max 0UTPUT VOLTAGE ADUISTMENT RANGE[V] Fixed (TRM pin open), adjustable by external resistor or external signal 45.0 - 55.0 0UTPUT VOLTAGE SETTING[V] 49.2 - 50.8 0VERCURRENT PROTECTION Works over 105% of rating and recovers automatically 0VERCURRENT PROTECTION Vorks over 105% of rating and recovers automatically 0VERCURRENT PROTECTION Vorks over 105% of rating and recovers automatically 0VERCURRENT PROTECTION Vorks over 105% of rating and recovers automatically			mV]					
NUTPUT Mb + M0C+i 200max 40b + 20C+i 300max TEMPERATURE REGULATION(m) 40b + 40C+i 40b + 40C+i 1000max DRIFT[mV] 42 200max 40b + 40C+i 1000max 0TPUT VOLTAGE ADUISTMENT RANCE[V] Fixed (TRM pin open), adjustable by external resistor or external signal 0TPUT VOLTAGE ADUISTMENT RANCE[V] 45.0 - 55.0 0TPUT VOLTAGE PROTECTION Work over 105% of rating and recovers automatically OVERVOLTAGE PROTECTION[V] 57.5 - 67.5 REMOTE SENSING Not provided REMOTE ON/OFF Not provided REMOTE ON/OFF Not provided INPUT-TOUTPUT AC3000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) OUTPUT-FG AC200V 1 minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) OUTPUT-FG AC2000V 1 minute, Cutoff curren								
OUTPUT 400 2013 300max RIPPLE NOISE[mVp-p] 400 2013 300max TEMPERATURE REGULATION[mV] 400 2014 300max TEMPERATURE REGULATION[mV] 010+100C 500max Atto at 021 300max 010+100C TEMPERATURE REGULATION[mV] 010+100C 500max Atto at 021 300max 010+100C OUTPUT VOLTAGE ADJUSTMENT RANGE[V] Fixed (TRM pin open), adjustable by external resistor or external signal OUTPUT VOLTAGE ADJUSTMENT RANGE[V] 49.2 - 50.8 OUTPUT VOLTAGE PROTECTION[V] 57.5 - 67.5 REMOTE ON/OFF Not provided OUTPUT-FG AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) OUTPUT-FG AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) OUTPUT-FG AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) OUTPUT-FG AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) OUTPUT-FG				200max				
OUTPUT Alb + M0C + 1 4 b + 20C + 3 300max TEMPERATURE REGULATION(m) 00+100C 40 b + 100C 500max DRIFT[mV] *2 200max DRIFT[mV] *2 200max OUTPUT VOLTAGE ADJUSTINENT RANGEVI OUTPUT VOLTAGE SETTING[V] Fixed (TRM pin open), adjustable by external resistor or external signal OUTPUT VOLTAGE ADJUSTINENT RANGEVI OUTPUT VOLTAGE SETTING[V] 49.2 - 50.8 OVERCURRENT PROTECTION OVERVOLTAGE PROTECTION[V] 57.5 - 67.5 REMOTE SENSING OTHERS Not provided REMOTE ON/OFF Not provided REMOTE SUPUT-FG AC2,000V 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 = 10mA, DC500V 50MΩ min (20±15°C) OUTPUT-FG AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) OUTPUT-FG AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) OUTPUT-FG AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) OUTPUT-FG AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) OUTPUT-FG AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (20±15°C)		RIPPLE[mVp-p]	-40 to -20°C *1	300max				
Fume 400-201/site 300max TEMPERATURE REGULATION[mV] 010+100C 500max DRIFT[mV] *2 200max OUTPUT VOLTAGE ADJUSTMENT RANCE(V) Fixed (TRM pin open), adjustable by external resistor or external signal OUTPUT VOLTAGE EDJUSTMENT RANCE(V) Fixed (TRM pin open), adjustable by external resistor or external signal OUTPUT VOLTAGE SETTING(V) 49.2 - 50.8 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 REMOTE ON/OFF Not provided 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 = 10mA, DC500V 50MΩ min (20±15°C) OUTPUT-FG AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) OUTPUT-FG AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) OUTPUT-FG AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) STORAGE TEMP,HUMID.AND ALTITUDE -40 to +100°C, 20 - 95%RH (-20 to +100°C *1					
TEMPERATURE REGULATION(m) 40 to +100C 1000max DRIFT[mV] *2 200max OUTPUT VOLTAGE ADJUSTNENT RANGE(V) Fixed (TRM pin open), adjustable by external resistor or external signal OUTPUT VOLTAGE EDJUSTNENT RANGE(V) Fixed (TRM pin open), adjustable by external resistor or external signal OUTPUT VOLTAGE EDJUSTNENT RANGE(V) Fixed (TRM pin open), adjustable by external resistor or external signal OUTPUT VOLTAGE EDJUSTNENT RANGE(V) 49.2 - 50.8 OVERCURRENT PROTECTION (V) 57.5 - 67.5 REMOTE ON/OFF Not provided REMOTE ON/OFF Not provided REMOTE ON/OFF Not provided INPUT-OUTPUT AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) OUTPUT-FG AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) OUTPUT-FG AC200V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) OUTPUT-FG AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) OUTPUT-FG AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) OUTPUT-FG AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) STORAGE TEMP,HUMIDAND ALTITUDE -40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max	OUTPUT	RIPPLE NOISE[mVp-p]	-40 to -20°C *1	300max				
PRIFT(mV) *2 200max OUTPUT VOLTAGE ADJUSTMENT RANCE(V) Fixed (TRM pin open), adjustable by external resistor or external signal OUTPUT VOLTAGE ADJUSTMENT RANCE(V) 45.0 - 55.0 OUTPUT VOLTAGE SETTING(V) 49.2 - 50.8 OVERCURRENT PROTECTION Works over 105% of rating and recovers automatically OVERCURRENT PROTECTION Works over 105% of rating and recovers automatically OVERCURRENT PROTECTION Works over 105% of rating and recovers automatically OVERVOLTAGE PROTECTION[V] 57.5 - 67.5 REMOTE SENSING Not provided REMOTE SENSING Not provided REMOTE ON/OFF Not provided INPUT-OUTPUT AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) OUTPUT-FG AC200V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) OUTPUT-FG AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) OUTPUT-FG AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) OUTPUT-FG AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) OUTPUT-FG AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) MPACT +0 to +100°C (On aluminum base plate), 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max V			0 to +100℃	500max				
Fixed (TRM pin open), adjustable by external resistor or external signal OUTPUT VOLTAGE ADJUSTMENT RANGE[V] Fixed (TRM pin open), adjustable by external resistor or external signal OUTPUT VOLTAGE SETTING[V] 49.2 - 50.8 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 NPUT-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 = 10mA, DC500V 50MΩ min (20±15°C) OUTPUT-FG AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) OUTPUT-FG AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) OUTPUT-FG AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) OVERAUTING EMP,HUMID.AND ALITITUDE -40 to +100°C (On aluminum base plate), 20 - 95%RH (Non condensing) (Refer to "Derating"), 4,000m (13,000 feet) max ENVIRONMENT ID - 55Hz, 49.0m/s² (20G), 3minutes period, 60minutes each along X, Y and Z axis IMPACT 196.1m/s² (20G), 11ms, once each along X, Y and Z axis IMPACT 196.1m/s² (20G), 1		TEMPERATURE REGULATION[mV]	-40 to +100℃	1000max				
OUTPUT VOLTAGE ADJUSTMENT RANGE() 45.0 - 55.0 OUTPUT VOLTAGE SETTING[V] 49.2 - 50.8 OVERCURRENT PROTECTION Works over 105% of rating and recovers automatically OVERCURRENT PROTECTION[V] 57.5 - 67.5 REMOTE ON/OFF Not provided REMOTE ON/OFF Not provided 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 = 10mA, DC500V 50MΩ min (20±15°C) OUTPUT-FG AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) OUTPUT-FG AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) OUTPUT-FG AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) OUTPUT-FG AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) OUTPUT-FG AC500V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) OPERATING TEMP,HUMID.AND ALTITUDE -40 to +100°C (On aluminum base plate), 20 - 95%RH (Non condensing), 80000 (30,000 feet max STORAGE TEMP,HUMID.AND ALTITUDE -40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max STORAGE TEMP,HUMID.AND ALTITUDE -40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max		DRIFT[mV]	*2	200max				
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OVERCURRENT PROTECTION Works over 105% of rating and recovers automatically OVERVOLTAGE PROTECTION[V] 57.5 - 67.5 CIRCUIT AND OTHERS REMOTE SENSING Not provided REMOTE ON/OFF Not provided 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 = 10mA, DC500V 50MΩ min (20±15°C) OUTPUT-FG AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (20±15°C) OVERATING TEMP,HUMID.AND ALTITUDE -40 to +100°C (On aluminum base plate), 20 - 95%RH (Non condensing) (Refer to "Derating"), 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/s² (5G), 3minutes period, 60minutes each along X, Y and Z axis MAPACT 196.1m/s² (20G), 11ms, once each along X, Y and Z axis NOBE REGULATIONS UL60950-1, C-UL (CSA60950-1), EN60950-1, EN50178 HARMONIC ATTENUATOR Complies with IEC61000-3-2 (Class A) *3 CASE SIZE/WEIGHT 76.2 × 28.5 × 50.8mm [3.0 × 1.12 × 2.0 inches] (W×H×D) / 150g max		OUTPUT VOLTAGE ADJUSTMEN	II RANGE[V]	45.0 - 55.0				
OVERVOLTAGE PROTECTION[V] 57.5 - 67.5 CIRCUIT AND OTHERS OVERVOLTAGE PROTECTION[V] 57.5 - 67.5 REMOTE SENSING Not provided REMOTE ON/OFF Not provided 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) OUTPUT-FG AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (20±15°C) OPERATING TEMP,HUMID.AND ALTITUDE -40 to +100°C (On aluminum base plate), 20 - 95%RH (Non condensing) (Refer to "Derating"), 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/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 VIBRATION 10 - 55Hz, 49.0m/s² (5G), 3minutes period, 60minutes each along X, Y and Z axis MORE REGULATIONS AGENCY APPROVALS UL60950-1, C-UL (CSA60950-1), EN60950-1, EN50178 NOBSE REGULATIONS 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 <td></td> <td colspan="2">OUTPUT VOLTAGE SETTINGIVI</td> <td colspan="5">49.2 - 50.8</td>		OUTPUT VOLTAGE SETTINGIVI		49.2 - 50.8				
OVERVOLIAGE PROTECTION[V] 57.5 - 67.5 REMOTE SENSING Not provided REMOTE ON/OFF Not provided 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 AC2000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) OUTPUT-FG AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (20±15°C) OUTPUT-FG AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (20±15°C) OUTPUT-FG AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (20±15°C) OVERATINGTEMP,HUMID.AND ALTITUDE -40 to +100°C (On aluminum base plate), 20 - 95%RH (Non condensing) (Refer to "Derating"), 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/s² (5G), 3minutes period, 60minutes each along X, Y and Z axis VIBRATION 10 - 55Hz, 49.0m/s² (5G), 3minutes period, 60minutes each along X, Y and Z axis ONDER REGULATIONS AGENCY APPROVALS UL60950-1, C-UL (CSA60950-1), EN60950-1, EN50178 NOBE REGULATIONS HARMONIC ATTENUATOR Complies with IEC61000-3-2 (Class A) *3 OTHERS CASE SIZE/WEIGHT		OVERCURRENT PROT	ECTION	Works over 105% of rating and recovers automatically				
REMOTE SENSING Not provided REMOTE ON/OFF Not provided REMOTE ON/OFF Not provided SOLATION INPUT-OUTPUT AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C) SOLATION 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) OPERATING TEMP,HUMID.AND ALTITUDE -40 to +100°C (On aluminum base plate), 20 - 95%RH (Non condensing) (Refer to "Derating"), 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 STORAGE TEMP,HUMID.AND ALTITUDE -40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max STORAGE TEMP,HUMID.AND ALTITUDE -40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max STORAGE TEMP,HUMID.AND ALTITUDE -40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max STORAGE TEMP,HUMID.AND ALTITUDE -40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max STORAGE TEMP,HUMID.AND ALTITUDE -40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000 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/s² (5G), 3min		OVERVOLTAGE PROTEC	CTION[V]	57.5 - 67.5				
REMOTE ON/OFF Not provided 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 = 10mA, DC500V 50MΩ min (20±15℃) OPERATING TEMP,HUMID.AND ALTITUDE -40 to +100℃ (On aluminum base plate), 20 - 95%RH (Non condensing) (Refer to "Derating"), 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 INPACT 196.1m/s² (20G), 11ms, once each along X, Y and Z axis INPACT UL60950-1, C-UL (CSA60950-1), EN60950-1, EN50178 VIBEREGULATIONS HARMONIC ATTENUATOR CONDER REGULATIONS CASE SIZE/WEIGHT 76.2 × 28.5 × 50.8mm [3.0 × 1.12 × 2.0 inches] (W×H×D) / 150g max		REMOTE SENSING		Not provided				
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) OPERATING TEMP,HUMID.AND ALTITUDE -40 to +100°C (On aluminum base plate), 20 - 95%RH (Non condensing) (Refer to "Derating"), 4,000m (13,000 feet) max ENVIRONMENT STORAGE TEMP,HUMID.AND ALTITUDE -40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max ENVIRONMENT STORAGE TEMP,HUMID.AND ALTITUDE -40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max STORAGE TEMP,HUMID.AND ALTITUDE -40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max STORAGE TEMP,HUMID.AND ALTITUDE -40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max STORAGE TEMP,HUMID.AND ALTITUDE -40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max STORAGE TEMP,HUMID.AND ALTITUDE -40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max STORAGE TEMP,HUMID.AND ALTITUDE -40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max STORAGE TEMP,HUMID.AND ALTITUDE -40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max STORAGE TEMP,HUMID.AND ALTITUDE -40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max STORAGE TEMP,HUMID.AND ALTITUDE UL60950-1, C-UL (CSA60950-1), EN60950-1, EN50178	OTTLENS	REMOTE ON/OFF						
OUTPUT-FG AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (20±15°C) OPERATING TEMP,HUMID.AND ALTITUDE -40 to +100°C (On aluminum base plate), 20 - 95%RH (Non condensing) (Refer to "Derating"), 4,000m (13,000 feet) max STORAGE TEMP,HUMID.AND ALTITUDE -40 to +100°C (On aluminum base plate), 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 NOBE REGULATIONS HAGENCY APPROVALS HARMONIC ATTENUATOR Complies with IEC61000-3-2 (Class A) *3 CASE SIZE/WEIGHT 76.2 × 28.5 × 50.8mm [3.0 × 1.12 × 2.0 inches] (W × H × D) / 150g max		INPUT-OUTPUT		AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (20±15°C)				
OPERATING TEMP, HUMID.AND ALTITUDE -40 to +100°C (On aluminum base plate), 20 - 95%RH (Non condensing) (Refer to "Derating"), 4,000m (13,000 feet) max STORAGE TEMP, HUMID.AND ALTITUDE -40 to +100°C (On aluminum base plate), 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 VIBRATIONS UL60950-1, C-UL (CSA60950-1), EN60950-1, EN50178 VOISE REGULATIONS HARMONIC ATTENUATOR CASE SIZE/WEIGHT 76.2 × 28.5 × 50.8mm [3.0 × 1.12 × 2.0 inches] (W × H × D) / 150g max	ISOLATION	INPUT-FG						
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/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 AGENCY APPROVALS UL60950-1, C-UL (CSA60950-1), EN60950-1, EN50178 NOBE REGULATIONS 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		OUTPUT-FG		AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (20±15°C)				
ENVIRONMENT 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 AGENCY APPROVALS UL60950-1, C-UL (CSA60950-1), EN60950-1, EN50178 INDER REGULATIONS 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		OPERATING TEMP., HUMID. AND	ALTITUDE	-40 to +100°C (On aluminum base plate), 20 - 95%RH (Non condensing) (Refer to "Derating"), 4.000m (13.000 feet) m				
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 AGENCY APPROVALS UL60950-1, C-UL (CSA60950-1), EN60950-1, EN50178 IONSE REGULATIONS HARMONIC ATTENUATOR Complies with IEC61000-3-2 (Class A) *3 CASE SIZE/WEIGHT 76.2×28.5×50.8mm [3.0×1.12×2.0 inches] (W×H×D) / 150g max		STORAGE TEMP., HUMID. AND ALTITUDE						
AGENCY APPROVALS UL60950-1, C-UL (CSA60950-1), EN60950-1, EN50178 NOBE REGULATIONS HARMONIC ATTENUATOR Complies with IEC61000-3-2 (Class A) *3 CASE SIZE/WEIGHT 76.2×28.5×50.8mm [3.0×1.12×2.0 inches] (W×H×D) / 150g max	ENVIRONMENT	VIBRATION		6 /1 1				
KORE REGULATIONS HARMONIC ATTENUATOR Complies with IEC61000-3-2 (Class A) *3 CASE SIZE/WEIGHT 76.2×28.5×50.8mm [3.0×1.12×2.0 inches] (W×H×D) / 150g max		IMPACT						
CASE SIZE/WEIGHT 76.2×28.5×50.8mm [3.0×1.12×2.0 inches] (W×H×D) / 150g max	SAFETY AND	AGENCY APPROVAI	S	UL60950-1, C-UL (CSA60950-1), EN60950-1, EN50178				
	NOISE REGULATIONS	HARMONIC ATTENU	ATOR					
		CASE SIZE/WEIGHT						
	UTHERS							

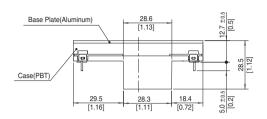
Refer to instruction manual for measuring method of electric characteristics. *1 *****2

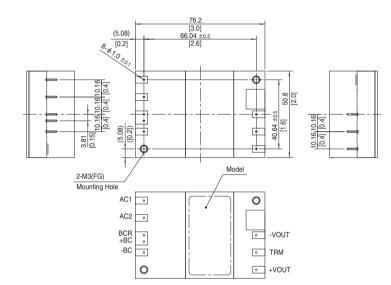
Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.

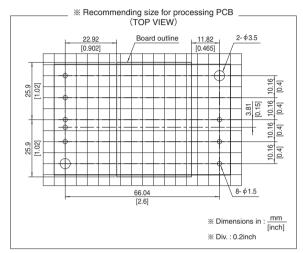
*3 Please contact us about another class.

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External view







% Tolerance : ±0.3 [±0.012]

* Weight : 150g max

Weight 100g max
Dimensions in mm, []=inches
Mounting hole screwing torque : 0.49N/m (5.0kgf/cm) max



*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		
CDECIFICATIONS							

SPECIFICATIONS

	MODEL		TUXS200F24	TUXS200F28	TUXS200F32	TUXS200F42	TUXS200F50			
	VOLTAGE[V]		AC85 - 264 1 ¢							
		ACIN 100V								
	CURRENT[A]	ACIN 200V	1.10typ (lo=100%)							
	FREQUENCY[Hz]		50/60 (45 - 66)							
NPUT		ACIN 100V	90typ	90typ	91typ	91typ	92typ			
NPUT	EFFICIENCY[%]	ACIN 200V	91typ	91typ	92typ	92typ	93typ			
		ACIN 100V	0.96typ							
	POWER FACTOR (lo=100%)	ACIN 200V	0.93typ							
	INRUSH CURRENT		Limited by external c	omponents (Thermis	tor)					
	LEAKAGE CURRENT	[[mA]	0.75max (ACIN 240)	/ 60Hz, lo=100%, Ac	cording to IEC60950-1)				
	VOLTAGE[V]		24	28	32	42	50			
	CURRENT[A]		8.3	7.0	6.2	4.7	4.0			
	LINE REGULATION[nV]	48max	56max	64max	84max	100max			
	LOAD REGULATION	[mV]	48max	56max	64max	84max	100max			
		-20 to +100°C * 1	144max	168max	192max	252max	300max			
	RIPPLE[mVp-p]	-40 to -20°C *1	192max	224max	256max	336max	400max			
UTPUT	RIPPLE NOISE[mVp-p]	-20 to +100°C * 1	144max	168max	192max	252max	300max			
01901	RIPPLE NOISE[IIIvp-p]	-40 to -20℃*1	192max	224max	256max	336max	400max			
		0 to +100℃	240max	280max	320max	420max	500max			
	TEMPERATURE REGULATION[mV]	-40 to +100℃	480max	560max	640max	820max	1000max			
	DRIFT[mV] *2		96max	112max	128max	168max	200max			
			Fixed (TRM pin open), adjustable by external resistor or external signal							
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		21.60 - 26.40	25.20 - 30.80	28.80 - 35.20	37.80 - 46.20	45.00 - 55.00			
	OUTPUT VOLTAGE SETTING[V]		23.62 - 24.38	27.55 - 28.45	31.49 - 32.51	41.33 - 42.67	49.20 - 50.80			
	OVERCURRENT PROT	ECTION	Works over 105% of rating and recovers automatically							
ROTECTION IRCUIT AND	OVERVOLTAGE PROTECTION[V]		27.60 - 28.80	32.20 - 33.60	36.80 - 38.40	48.30 - 50.40	57.50 - 60.00			
THERS	REMOTE SENSING		Not provided							
THEITO	REMOTE ON/OFF		Not provided							
	INPUT-OUTPUT		AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)							
SOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C)							
	OUTPUT-FG		AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (20±15°C)							
	OPERATING TEMP., HUMID. AND	ALTITUDE	-40 to +100°C (On aluminum base plate), 20 - 95%RH (Non condensing) (Refer to "Derating"), 4,000m (13,000 feet) ma							
NVIRONMENT	STORAGE TEMP., HUMID. AND	ALTITUDE	-40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max							
NVIRONMENT	VIBRATION		10 - 55Hz, 49.0m/s ² (5G), 3minutes period, 60minutes each along X, Y and Z axis							
	IMPACT		196.1m/s ² (20G), 11ms, once each along X, Y and Z axis							
AFETY AND	AGENCY APPROVALS UL60950-1, C-UL (CSA60950-1), EN60950-1, EN50178									
OISE REGULATIONS	HARMONIC ATTENU	ATOR	Complies with IEC61	000-3-2 (Class A) *3						
THERE	CASE SIZE/WEIGHT		76.2×28.5×50.8mm	n [3.0×1.12×2.0 inc	hes] (W×H×D) / 150	g max				
OTHERS -	COOLING METHOD		Conduction cooling (e.g. heat radiation from the aluminum base plate to the attached heat sink)							

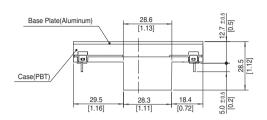
Refer to instruction manual for measuring method of electric characteristics. *1 *****2

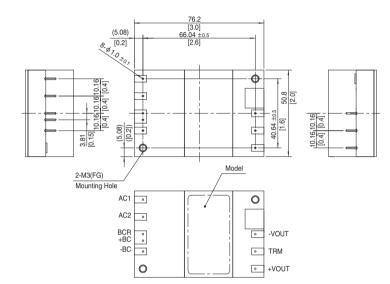
Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.

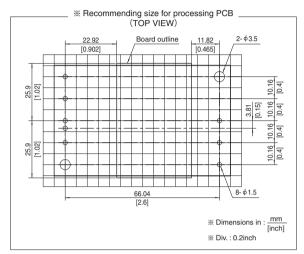
*3 Please contact us about another class.

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External view







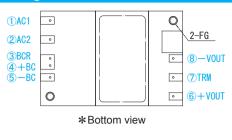
% Tolerance : ±0.3 [±0.012]

* Weight : 150g max

Weight 100g max
Dimensions in mm, []=inches
Mounting hole screwing torque : 0.49N/m (5.0kgf/cm) max

COŞEL | TUXS-series

Pin Configuration



No.	Pin Connection	Function			
1	AC1	AC input			
2	AC2	AC input			
3	BCR	+BC output			
4	+BC	+BC output			
5	-BC	-BC output			
6	+VOUT	+DC output			
1	TRM	Adjustment of output voltage			
8	-VOUT	-DC output			
-	FG	Mounting hole (FG)			

Implementation • Mounting Method

Mounting method

- The unit can be mounted in any direction. When two or more power supplies are used side by side, position them with proper intervals to allow enough air ventilation. Aluminum base plate temperature of each power supply should not exceed the temperature range shown in "Derating".
- Avoid placing the AC input line pattern layout underneath the unit. It will increase the line conducted noise. Make sure to leave an ample distance between the line pattern layout and the unit. Also avoid placing the DC output line pattern underneath the unit because it may increase the output noise. Lay out the pattern away from the unit.
- Avoid placing the signal line pattern layout underneath the unit because the power supply might become unstable. Lay out the pattern away from the unit.
- High-frequency noise radiates directly from the unit to the atmosphere. Therefore, design the shield pattern on the printed circuit board and connect it to FG.

The shield pattern prevents noise radiation.

■When a heat sink cannot be fixed on the base plate side, order the power module with "-T" option. A heat sink can be mounted by affixing a M3 tap on the heat sink. Please make sure a mounting hole will be connected to a grounding capacitor CY.

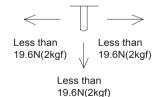
	Mounting hole
Standard	M3 tapped
Optional : -T	ϕ 3.4 thru

Stress onto the pins

- When too much stress is applied to the pins may damage internal connections. Avoid applying stress in excess of that shown in right figure.
- The pins are soldered onto the internal PCB.
 - Therefore, Do not bend or pull the leads with excessive force.
- Mounting hole diameter of PCB should be 3.5mm to reduce the stress to the pins.
- Fix the unit on PCB (fixing fittings) by screws to reduce the stress to the pins. Be sure to mount the unit first, then solder the unit.

Soldering

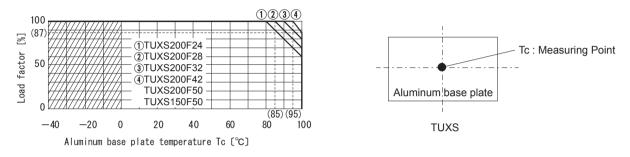
■Flow soldering : 260°Cless than 15 seconds. ■Soldering iron (26W) : 450°Cless than 5 seconds.



Derating

Output voltage derating curve

- Use the power modules with conduction cooling (e.g. heat dissipation from the aluminum base plate to the attached heat sink). Below shows the derating curves with respect to the aluminum base plate temperature. Note that operation within the hatched areas will cause a significant level of ripple and ripple noise.
- Please measure the temperature on the aluminum base plate edge side when you cannot measure the temperature of the center part of the aluminum base plate. In this case, please take 5deg temperature margin from the derating characteristics shown in Below. Please reduce the temperature fluctuation range as much as possible when the up and down of the temperature are frequently generated. Contact us for more information on cooling methods.



Instruction Manual

◆ It is neccessary to read the "Instruction Manual" and "Before using our product" before you use our product.

Instruction Manual Before using our product https://en.cosel.co.jp/product/powersupply/TUXS/ https://en.cosel.co.jp/technical/caution/index.html





EL

COS

Basic Characteristics Data

Model	Circuit method	Switching frequency [kHz]	Input current [A] *1	Inrush current protection circuit	PCB/Pattern			Series/Parallel operation availability	
					Material	Single sided	Double sided	Series operation	Parallel operation
TUXS150F	Active filter	80-600	1.70	Thermistor	Aluminum	Yes		Yes	*2
	LLC resonant converter	100-300							
TUXS200F	Active filter	80-600	2.20	Thermistor	Aluminum	Yes			
	LLC resonant converter	100-300						Yes	*2

*1 The value of input current is at ACIN 100V and rated load.

*2 Refer to instruction manual.

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