Ordering information

50



①Series name ②Single output ③Output wattage ④Universal Input

⑤Output voltage

TUNS50F24

 Optional
 T : with Mounting hole (φ 3.4 thru)

*Avoid short circuit between +BC and -BC. It may cause the failure of inside components.

TUNS50F05

*Keep TRM open, if output voltage adjustment is not necessary.

MODEL	TUNS50F05	TUNS50F12	TUNS50F24
MAX OUTPUT WATTAGE[W]	50.0	50.4	50.4
DC OUTPUT	5V 10A	12V 4.2A	24V 2.1A

AC85 - 264 1 ¢ (Please refer to the instruction manual, 6.5 Derating)

TUNS50F12

SPECIFICATIONS

MODEL

VOLTAGE[V]

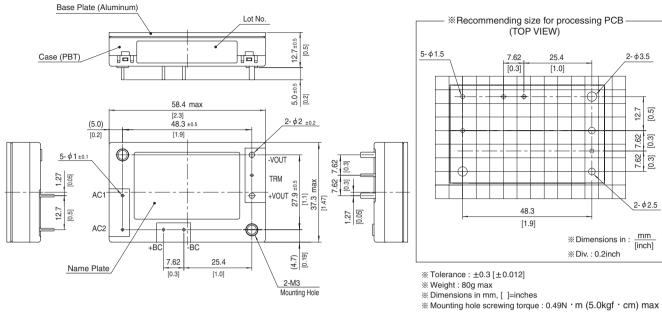
	VOLIAGE[V]		AC65 - 264 T Ψ (Please refer to the in	struction manual, 6.5 Derating)			
	CURRENT[A]	ACIN 100V	0.67typ (lo=100%)				
	CONMENTIAL	ACIN 200V	0.35typ (lo=100%)				
	FREQUENCY[Hz]		50/60 (47 - 63)				
INDUT	EFFICIENCY[0/]	ACIN 100V	79typ	83typ	84typ		
INPUT	EFFICIENCY[%]	ACIN 200V	81typ	84typ	86typ		
	DOWER FACTOR (L. 4000()	ACIN 100V	0.95typ				
	POWER FACTOR (Io=100%)	ACIN 200V	.90typ				
	INRUSH CURRENT		Limited by external components (Thermistor)				
	LEAKAGE CURRENT[mA]		0.75max (ACIN 240V 60Hz, lo=100%, According to IEC60950-1)				
	VOLTAGE[V]		5	12	24		
	CURRENT[A]		10	4.2	2.1		
	LINE REGULATION[mV]	10max	24max	48max		
	LOAD REGULATION	[mV]	10max	24max	48max		
		0 to +100℃*1	80max	120max	120max		
	RIPPLE[mVp-p]	-40 to 0°C *1	120max	150max	150max		
		0 to 15% Load * 1	200max	280max	380max		
OUTDUT		0 to +100℃*1	120max	150max	150max		
OUTPUT	RIPPLE NOISE[mVp-p]	-40 to 0°C *1	200max	200max	250max		
		0 to 15% Load * 1	280max	360max	460max		
	TEMPEDATURE REQUIRATIONS	0 to +65℃	50max	120max	240max		
	TEMPERATURE REGULATION[mV]	-40 to +100°C	100max	240max	480max		
	DRIFT[mV]	*2	20max	40max	90max		
	OUTPUT VOLTAGE ADJUSTMEN	IT DANCEIVI	Fixed (TRM pin open), adjustable by external resistor or external signal				
	OUTPUT VOLTAGE ADJUSTMEN	II KANGE[V]	4.50 - 6.00	10.80 - 13.20	21.60 - 26.40		
	OUTPUT VOLTAGE SET	TING[V]	4.97 - 5.13	11.91 - 12.29	23.62 - 24.38		
	OVERCURRENT PROT	ECTION	Works over 105% of rating and recovers automatically				
PROTECTION CIRCUIT AND	OVERVOLTAGE PROTEC	CTION[V]	6.30 - 7.00	13.90 - 16.35	27.60 - 32.40		
OTHERS	REMOTE SENSING		Not provided				
OTTLETTO	REMOTE ON/OFF		Not provided				
	INPUT-OUTPUT		AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (20±15 $^{\circ}$ C)				
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (20±15 $^{\circ}$ C)				
	OUTPUT-FG		AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (20±15 $^{\circ}$ C)				
	OPERATING TEMP., HUMID. AND	ALTITUDE	-40 to +100℃ (On aluminum base plate), 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000 feet) max				
ENVIDONMENT	STORAGE TEMP., HUMID. AND	ALTITUDE	-40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max				
ENVIRONMENT	VIBRATION		10 - 55Hz, 49.0m/s ² (5G), 3minutes pe	eriod, 60minutes each along X, Y and	Z axis		
	IMPACT		196.1m/s² (20G), 11ms, once each ale	ong X, Y and Z axis			
SAFETY AND	AGENCY APPROVALS UL60950-1, C-UL (CSA60950-1), EN6095			60950-1, EN50178			
NOISE REGULATIONS	HARMONIC ATTENU	IATOR	Complies with IEC61000-3-2 (Class A	A) *3			
OTHERS	CASE SIZE/WEIGHT		58.4×12.7×37.3mm [2.3×0.5×1.47	7 inches] (W×H×D) / 80g max			
UTITERS	COOLING METHOD		Conduction cooling (e.g. heat radiatio	n from the aluminum base plate to the	attached heat sink)		
*1 Refer to	instruction manual for meas	uring meth	nd of electric characteristics				

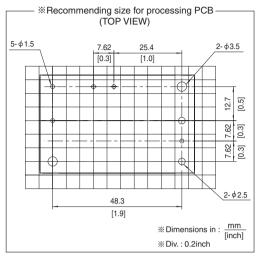
- Refer to instruction manual for measuring method of electric characteristics.
- Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.
- Please contact us about another class.





External view





100 F §



- Series name
 Single output
 Output wattage
- 4 Universal Input
- ⑤Output voltage

TUNS100F24

 Optional
 T : with Mounting hole (φ 3.4 thru)

- *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.
- *If remote sensing is not necessary, connect between +Vout & +S and between -Vout & -S.

TUNS100F05

MODEL	TUNS100F05	TUNS100F12	TUNS100F24
MAX OUTPUT WATTAGE[W]	100.0	100.8	100.8
DC OUTPUT	5V 20A	12V 8.4A	24V 4.2A

AC85 - 264 1 ¢ (Please refer to the instruction manual, 6.5 Derating)

TUNS100F12

SPECIFICATIONS

MODEL

VOLTAGE[V]

CURRENTIAL	CURRENT[A]	ACIN 100V	1.3typ (lo=100%)					
	COMMENTIA	ACIN 200V	0.7typ (lo=100%)					
	FREQUENCY[Hz]		50/60 (47 - 63)					
INPUT	EFFICIENCY[%]	ACIN 100V	82typ	83typ	84typ			
INPUT	EFFICIENCI[%]	ACIN 200V	85typ	85typ	86typ			
	POWER FACTOR (Io=100%)	ACIN 100V	.95typ					
	POWER FACTOR (IO=100%)	ACIN 200V						
	INRUSH CURRENT		Limited by external components (The	rmistor)				
	LEAKAGE CURREN	T[mA]	0.75max (ACIN 240V 60Hz, lo=100%	0.75max (ACIN 240V 60Hz, lo=100%, According to IEC60950-1)				
	VOLTAGE[V]		5	12	24			
	CURRENT[A]		20	8.4	4.2			
	LINE REGULATION[mV]		10max	24max	48max			
	LOAD REGULATION	[mV]	10max	24max	48max			
		0 to +100°C *1	80max	120max	120max			
	RIPPLE[mVp-p]	-40 to 0°C *1	120max	150max	150max			
		0 to 15% Load * 1	160max	240max	240max			
OUTPUT		0 to +100℃*1	120max	150max	150max			
OUIPUI	RIPPLE NOISE[mVp-p]	-40 to 0°C *1	200max	200max	250max			
		0 to 15% Load * 1	240max	300max	300max			
	TEMPERATURE REGULATION[mV]	0 to +65℃	50max	120max	240max			
	TEMPERATURE REQUESTION[IIV]	-40 to +100℃	100max	240max	480max			
	DRIFT[mV] *2		20max	40max	90max			
	OUTPUT VOLTAGE ADJUSTMEN	IT BANGEIVI	Fixed (TRM pin open), adjustable by external resistor or external signal					
	OUT OF VOLINGE ADDOORMEN	II IIANGE[V]	4.50 - 6.00	10.80 - 13.20	21.60 - 26.40			
	OUTPUT VOLTAGE SET	TING[V]	4.97 - 5.13	11.91 - 12.29	23.62 - 24.38			
PROTECTION	OVERCURRENT PROT	ECTION	Works over 105% of rating and recove	ers automatically				
PROTECTION CIRCUIT AND	OVERVOLTAGE PROTEC	CTION[V]	6.30 - 7.00	13.90 - 16.35	27.60 - 32.40			
OTHERS	REMOTE SENSING		Provided					
	REMOTE ON/OFF		Not provided					
	INPUT-OUTPUT		AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (20±15 $^{\circ}$ C)					
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (20±15 $^{\circ}$ C)					
	OUTPUT-FG		AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (20±15°C)					
	OPERATING TEMP., HUMID. AND	ALTITUDE	1 72		RATING CURVE), 3,000m (10,000 feet) max			
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE	-40 to +100°C, 20 - 95%RH (Non con-					
LITTION	VIBRATION		10 - 55Hz, 49.0m/s² (5G), 3minutes p	eriod, 60minutes each along X, Y and	Zaxis			
	IMPACT		196.1m/s² (20G), 11ms, once each along X, Y and Z axis					
SAFETY AND	AGENCY APPROVAL	_S	UL60950-1, C-UL (CSA60950-1), EN	60950-1, EN50178				
NOISE REGULATIONS	HARMONIC ATTENU		Complies with IEC61000-3-2 (Class A	<i>:</i>				
OTHERS	CASE SIZE/WEIGHT		58.4×12.7×61.0mm [2.3×0.5×2.4					
	COOLING METHOD		Conduction cooling (e.g. heat radiatio	n from the aluminum base plate to the	attached heat sink)			
*1 Refer to	instruction manual for meas	uring metho	od of electric characteristics.					

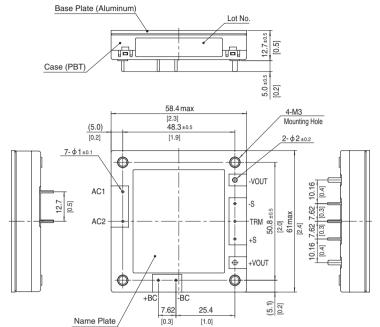
- Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.
- Please contact us about another class.

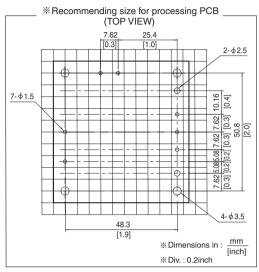


TUNS100F | CO\$EL



External view





- % Tolerance : ±0.3 [±0.012]
 % Weight : 120g max
- * Dimensions in mm, []=inches
- ** Mounting hole screwing torque : 0.49N · m (5.0kgf · cm) max

TUNS300F

300



- ①Series name ②Single output ③Output wattage ④Universal Input
- ⑤Output voltage

TUNS300F48

- (a) Optional
 T: with Mounting hole
 (\$\phi 3.4 \text{ thru})
- Y1: Outputvoltage adjustment
- range ±20% (Only 48V) R1: with Remote ON/OFF
- R2: with Remote ON/OFF (Low standby power)

- *Avoid short circuit between +BC/R and -BC. It may cause the failure of inside components.
- \star Keep TRM open, if output voltage adjustment is not necessary.
- *If remote sensing is not necessary, connect between +Vout & +S and between -Vout & -S.

TUNS300F12

MODEL	TUNS300F12	TUNS300F28	TUNS300F48
MAX OUTPUT WATTAGE[W]	300	308	312
DC OUTPUT	12V 25A	28V 11A	48V 6.5A

TUNS300F28

SPECIFICATIONS

MODEL

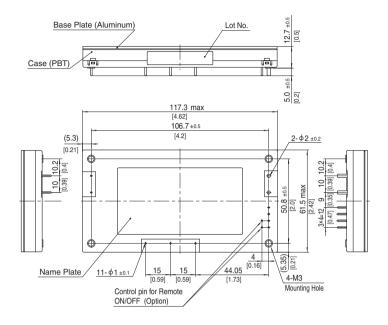
	MODEL		101100001 12	101100001 20	101100001 10		
	VOLTAGE[V]		AC85 - 264 1 φ				
	OUDDENTIAL	ACIN 100V	3.6typ (lo=100%)				
	CURRENT[A]	ACIN 200V	1.8typ (lo=100%)				
l l	FREQUENCY[Hz]		50/60 (47 - 63)				
	EFFICIENCY[%]	ACIN 100V	84typ	87typ	87typ		
	EFFICIENCY[%]	ACIN 200V	86typ	89typ	90typ		
	POWER FACTOR (Io=100%)	ACIN 100V	0.96typ				
	POWER FACTOR (10=100%)	ACIN 200V	0.93typ				
	INRUSH CURRENT		Limited by external resistance				
	LEAKAGE CURREN	T[mA]	0.75max (ACIN 240V 60Hz, lo=100%	, According to IEC60950-1)			
	VOLTAGE[V]		12	28	48		
	CURRENT[A]		25	11	6.5		
	LINE REGULATION[I	mV]	24max	56max	96max		
	LOAD REGULATION	[mV]	24max	56max	96max		
	RIPPLE[mVp-p]	0 to +100°C *1	120max	180max	250max		
	nirrec[iiivp-p]	-40 to 0°C *1	150max	200max	300max		
OUTPUT	RIPPLE NOISE[mVp-p]	0 to +100°C * 1	150max	200max	300max		
001101	TIII T EE NOISE[IIIVP-P]	-40 to 0°C *1	200max	300max	450max		
	TEMPERATURE REGULATION[mV]	0 to +65℃	120max	280max	480max		
	TEMPERATURE REQUESTION[IIIV]	-40 to +100℃	240max	560max	960max		
	DRIFT[mV]	*2	40max	90max	180max		
	OUTPUT VOLTAGE ADJUSTMEN	IT DANGEIVI	Fixed (TRM pin open), adjustable by external resistor or external signal				
	OUT OF VOLINGE ADDOORMEN	II IIANGE[V]	9.60 - 14.40	22.40 - 33.60	38.40 - 52.80 (-Y1 Option : 38.4 - 57.6)		
	OUTPUT VOLTAGE SET	TING[V]	11.91 - 12.29	27.56 - 28.44	47.24 - 48.76		
PROTECTION	OVERCURRENT PROT		Works over 105% of rating and recovers automatically				
CIRCUIT AND	OVERVOLTAGE PROTEC	CTION[V]	15.00 - 16.80	35.00 - 39.20	55.20 - 64.80 (-Y1 Option : 60.0 - 67.2)		
OTHERS	REMOTE SENSING		Provided				
	REMOTE ON/OFF		Optional (External power supply is red				
	INPUT-OUTPUT · RC	*4	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (20±15 $^{\circ}$ C)				
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)				
IOOLATION	OUTPUT · RC-FG	*4	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (20±15℃)				
	OUTPUT-RC	*4	7.6 100 Thimlate, Gaten Gation Tooling, 20 100 Troining (20 210 Tr)				
	OPERATING TEMP., HUMID. AND		-40 to +100°C (On aluminum base plate), 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000 feet) max				
ENVIRONMENT	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 APPROVAL		UL60950-1, C-UL (CSA60950-1), EN				
NOISE REGULATIONS	HARMONIC ATTENU		Complies with IEC61000-3-2 (Class A	· ·			
OTHERS	CASE SIZE/WEIGHT		117.3×12.7×61.5mm [4.62×0.5×2	, , ,			
	COOLING METHOD		Conduction cooling (e.g. heat radiation	n from the aluminum base plate to the	attached heat sink)		
*1 Refer to	instruction manual for meas	uring meth	od of electric characteristics.				

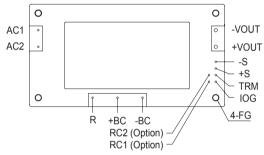
- Refer to instruction manual for measuring method of electric characteristics.
- Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.
- Please contact us about another class.
 "RC" is applicable when remote control (optional) is added.

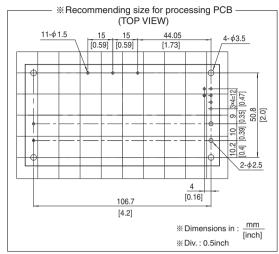




External view



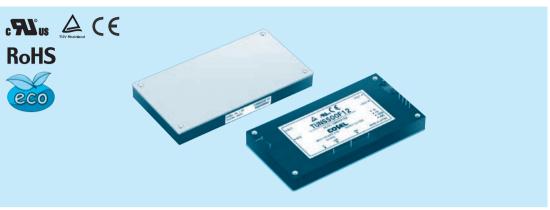




- ** Tolerance : ±0.3 [± 0.012]
- * Weight : 190g max
- ※ Dimensions in mm, []=inches
- Mounting hole screwing torque: 0.49N · m (5.0kgf · cm) max

TUNS500F

500 ₄



- Series name
 Single output
 Output wattage
- 4 Universal Input
- ⑤Output voltage

TUNS500F48

- (a) Optional
 T: with Mounting hole
 (\$\phi 3.4 \text{ thru})
- Y1: Outputvoltage adjustment
- range ±20% (Only 48V) R1: with Remote ON/OFF
- R2: with Remote ON/OFF (Low standby power)

- *Avoid short circuit between +BC/R and -BC. It may cause the failure of inside components.
- *Keep TRM open, if output voltage adjustment is not necessary.
- *If remote sensing is not necessary, connect between +Vout & +S and between -Vout & -S.

TUNS500F12

AC85 - 264 1 φ

MODEL	TUNS500F12	TUNS500F28	TUNS500F48
MAX OUTPUT WATTAGE[W]	504	504	504
DC OUTPUT	12V 42A (Peak 55A)	28V 18A (Peak 24A)	48V 10.5A (Peak 14A)

TUNS500F28

SPECIFICATIONS

MODEL

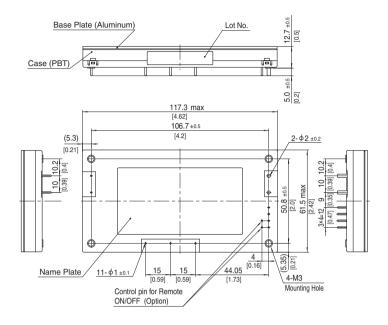
VOLTAGE[V]

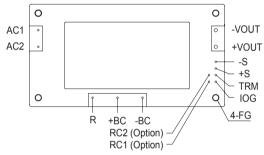
	OLIAGE[]		71000 Z0+19					
	CURRENT[A]	ACIN 100V	6.0typ (lo=100%)					
	CONNENT[A]	ACIN 200V	3.0typ (lo=100%)					
	FREQUENCY[Hz]		50/60 (47 - 63)					
INPUT	EFFICIENCY[%]	ACIN 100V	84typ	87typ	88typ			
INFUI	EFFICIENCI[%]	ACIN 200V	86typ	90typ	90.5typ			
	POWER FACTOR (Io=100%)		0.96typ					
	POWER FACTOR (IO=100%)	ACIN 200V	0.93typ					
	INRUSH CURRENT		Limited by external resistance					
	LEAKAGE CURREN	T[mA]	0.75max (ACIN 240V 60Hz, Io=100%, According to IEC60950-1)					
	VOLTAGE[V]		12	28	48			
	CURRENT[A]	*3	42 (Peak 55)	18 (Peak 24)	10.5 (Peak 14)			
	LINE REGULATION[I	mV]	24max	56max	96max			
	LOAD REGULATION	[mV]	24max	56max	96max			
	RIPPLE[mVp-p]	0 to +100°C *1	120max	180max	250max			
	nirrec[iiivp-p]	-40 to 0°C *1	150max	200max	300max			
OUTPUT	RIPPLE NOISE[mVp-p]	0 to +100°C *1	150max	200max	300max			
OUIFUI	HIPPLE NOISE[IIIVP-P]	-40 to 0°C *1	200max	300max	450max			
	TEMPERATURE REGULATION[mV]	0 to +65°C	120max	280max	480max			
	TEMPERATURE REGULATION[IIIV]	-40 to +100℃	240max	560max	960max			
	DRIFT[mV]	*2	40max	90max	180max			
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		Fixed (TRM pin open), adjustable by external resistor or external signal					
	OUTFUT VOLINGE ADJUSTMEN	II NANGE[V]	9.60 - 14.40	22.40 - 33.60	38.40 - 52.80 (-Y1 Option : 38.4 - 57.6)			
	OUTPUT VOLTAGE SET		11.91 - 12.29	27.56 - 28.44	47.24 - 48.76			
PROTECTION	OVERCURRENT PROT	ECTION	Works over 101% of peak current and recovers automatically					
CIRCUIT AND	OVERVOLTAGE PROTEC	CTION[V]	15.00 - 16.80	35.00 - 39.20	55.20 - 64.80 (-Y1 Option : 60.0 - 67.2)			
OTHERS	REMOTE SENSING		Provided					
	REMOTE ON/OFF		Optional (External power supply is required)					
	INPUT-OUTPUT · RC	*5	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (20±15 $^{\circ}$ C)					
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (20±15 $^{\circ}$ C)					
IOOLATION	OUTPUT · RC-FG	*5	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (20±15℃)					
	OUTPUT-RC	*5	AC100V 1minute, Cutoff current = 100mA, DC100V 10M Ω min (20±15 $^{\circ}$ C)					
	OPERATING TEMP., HUMID. AND		-40 to +100°C (On aluminum base plate), 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000 feet) max					
ENVIRONMENT	STORAGE TEMP., HUMID. AND	ALTITUDE	-40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max					
LIVIIIONIIILIVI	VIBRATION		, , , , , ,	eriod, 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 APPROVAL		UL60950-1, C-UL (CSA60950-1), EN					
NOISE REGULATIONS	HARMONIC ATTENU		Complies with IEC61000-3-2 (Class A	·				
OTHERS	CASE SIZE/WEIGHT		117.3×12.7×61.5mm [4.62×0.5×2					
	COOLING METHOD		Conduction cooling (e.g. heat radiatio	n from the aluminum base plate to the	attached heat sink)			
*1 Pofor to	to instruction manual for massuring method of electric characteristics							

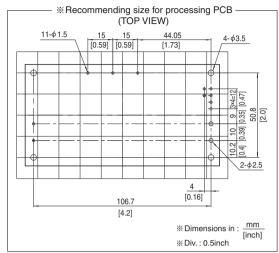
- Refer to instruction manual for measuring method of electric characteristics.
- Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.
- () means peak current. Avoid operating with peak current continuously. It may cause failure of the components inside the product. There are limitation of available condition of the peak current, such as peak time, duty etc. (Refer to the instruction manual in detail.)
- *4 *5 Please contact us about another class.
- "RC" is applicable when remote control (optional) is added.



External view







- ** Tolerance : ±0.3 [± 0.012]
- * Weight : 190g max
- ※ Dimensions in mm, []=inches
- Mounting hole screwing torque: 0.49N · m (5.0kgf · cm) max

TUNS700F

700 F 48



Series name
 Single output
 Output wattage

4 Universal Input

⑤Output voltage

(a) Optional
T: with Mounting hole
(\$\phi 3.4 \text{ thru})

Y1: Outputvoltage adjustment

range ±20% (Only 48V) R1: with Remote ON/OFF

R2: with Remote ON/OFF (Low standby power) P: Parallel operation

(Output voltage variable, Remote sensing disabled)

- *Avoid short circuit between +BC/R and -BC. It may cause the failure of inside components.
- *Keep TRM open, if output voltage adjustment is not necessary.
- *If remote sensing is not necessary, connect between +Vout & +S and between -Vout & -S.

MODEL	TUNS700F12	TUNS700F28	TUNS700F48
MAX OUTPUT WATTAGE[W]	700.8	700.0	700.8
DC OUTPUT	12V 58.4A	28V 25A	48V 14.6A
•			

SPECIFICATIONS

	MODEL		TUNS700F12	TUNS700F28	TUNS700F48	
	VOLTAGE[V]		AC85 - 264 1 φ			
	CURRENT[A]	ACIN 100V	8.6typ (lo=100%)			
	CUNNENT[A]	ACIN 200V	4.1typ (lo=100%)			
	FREQUENCY[Hz]		50/60 (47 - 63)			
INPUT	EFFICIENCY[%]	ACIN 100V		86typ	87typ	
INFOI		ACIN 200V		89typ	90typ	
	POWER FACTOR	ACIN 100V				
	(lo=100%)	ACIN 200V	0.93typ			
	INRUSH CURRENT		Limited by external resistance			
	LEAKAGE CURREN	T[mA]	0.75max (ACIN 240V 60Hz, lo=100%, According to IEC60950-1)			
	VOLTAGE[V]		12	28	48	
	CURRENT[A]		58.4	25	14.6	
	LINE REGULATION[24max	56max	96max	
	LOAD REGULATION		24max	56max	96max	
	RIPPLE[mVp-p]	0 to +100℃*1	120max	180max	250max	
	······································	-40 to 0°C *1	150max	200max	300max	
OUTPUT	RIPPLE NOISE[mVp-p]	0 to +100℃*1	150max	200max	300max	
0011 01	TILL I EE HOIOE[IIIVP P]	-40 to 0°C *1	200max	300max	450max	
	TEMPERATURE REGULATION[mV]	0 to +65℃	120max	280max	480max	
		-40 to +100°C	240max	560max	960max	
	DRIFT[mV]	*2	40max	90max	180max	
	OUTPUT VOLTAGE ADJUSTMEN	IT	Fixed (TRM pin open), adjustable by			
	RANGE[V]		9.60 - 14.40	22.40 - 33.60	38.40 - 52.80 (-Y1 Option : 38.4 - 57.6)	
	OUTPUT VOLTAGE SET		11.91 - 12.29	27.56 - 28.44	47.24 - 48.76	
PROTECTION	OVERCURRENT PROT		Works over 105% of rating and recove			
CIRCUIT AND	UVERVULIAGE PROTEC		15.00 - 16.80	35.00 - 39.20	55.20 - 64.80 (-Y1 Option : 60.0 - 67.2)	
OTHERS	REMOTE SENSING		Provided			
	REMOTE ON/OFF		Optional (External power supply is red	quired)		
MODEL			TUNS700F12-P	TUNS700F28-P	TUNS700F48-P	
	UT WATTAGE[W]		700.8	700.0	700.8	
DC OUTPU			12V 58.4A	28V 25A	48V 14.6A	

SPECIFICATIONS

	MODEL		TUNS700F12-P	TUNS700F28-P	TUNS700F48-P	
	VOLTAGE[V]		AC85 - 264 1 φ	1010700120-1	10110700170-1	
	VOLIAGE[V]	AOIN 400V	·			
	CURRENT[A]	ACIN 100V	8.6typ (lo=100%)			
		ACIN 200V	4.1typ (lo=100%)			
	FREQUENCY[Hz]		50/60 (47 - 63)	T		
INPUT	EFFICIENCY[%]	ACIN 100V	83typ	86typ	87typ	
0.	LITIOILINO I [70]	ACIN 200V	86typ	89typ	90typ	
	POWER FACTOR	ACIN 100V	0.96typ			
	(lo=100%)	ACIN 200V	0.93typ			
	INRUSH CURRENT		Limited by external resistance			
	LEAKAGE CURRE	NT[mA]	0.75max (ACIN 240V 60Hz, Io=100%, According to IEC60950-1)			
	VOLTAGE[V]		12	28	48	
	CURRENT[A]		58.4	25	14.6	
	VOLTAGE ACCUR	ACY[%]	+5, -3	+5, -3	+5, -3	
		0 to +100°C *1	240max	360max	600max	
OUTPUT	RIPPLE[mVp-p]	-40 to 0°C *1	300max	400max	700max	
		0 to +30% Load *1	360max	540max	900max	
		0 to +100°C *1	300max	400max	700max	
	RIPPLE NOISE[mVp-p]	-40 to 0°C *1	400max	600max	1000max	
		0 to +30% Load *1	450max	600max	1000max	
PROTECTION	N OVERCURRENT PROTECTION		Works over 105% of rating and recov	ers automatically		
CIRCUIT AND	OVERVOLTAGE PROT	ECTION[V]	15.00 - 16.80	35.00 - 39.20	55.20 - 64.80	
OTHERS	REMOTE ON/OFF		Optional (External power supply is re	guired)	·	





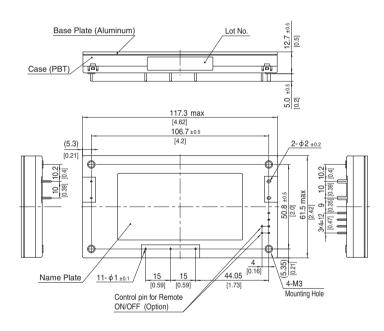
GENERAL SPECIFICATIONS

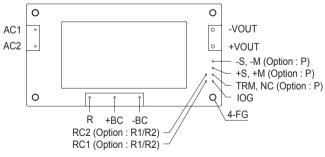
1	INPUT-OUTPUT · RC *4	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (20±15 $^{\circ}$ C)
	INPUT-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (20±15 $^{\circ}$ C)
ISOLATION	OUTPUT · RC-FG *4	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (20±15°C)
	OUTPUT-RC *4	AC100V 1minute, Cutoff current = 100mA, DC100V 10MΩ 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 CURVE), 3,000m (10,000 feet) max
ENVIRONMENT	STORAGE TEMP., HUMID. AND ALTITUDE	-40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max
ENVIRONMENT	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
NOISE REGULATIONS	HARMONIC ATTENUATOR	Complies with IEC61000-3-2 (Class A) *3
OTHERS	CASE SIZE/WEIGHT	117.3×12.7×61.5mm [4.62×0.5×2.42 inches] (W×H×D) / 190g max
OTHERS	COOLING METHOD	Conduction cooling (e.g. heat radiation from the aluminum base plate to the attached heat sink)

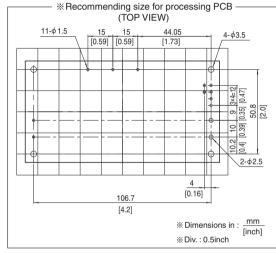
- Refer to instruction manual for measuring method of electric characteristics.

 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.
- Please contact us about another class.
- "RC" is applicable when remote control (optional) is added.

External view







- % Tolerance : ±0.3 [±0.012] * Weight: 190g max
- ※ Dimensions in mm, []=inches
- Mounting hole screwing torque: 0.49N · m (5.0kgf · cm) max

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Cosel:

<u>TUNS100F05</u> <u>TUNS50F05</u> <u>TUNS100F24</u> <u>TUNS50F24</u> <u>TUNS50F12</u> <u>TUNS500F12</u> <u>TUNS500F12</u> <u>TUNS500F12</u> <u>TUNS300F48</u> TUNS500F48 <u>TUNS500F28</u> <u>TUNS300F12</u> <u>TUNS300F28</u> <u>TUNS700F28-R2T</u>