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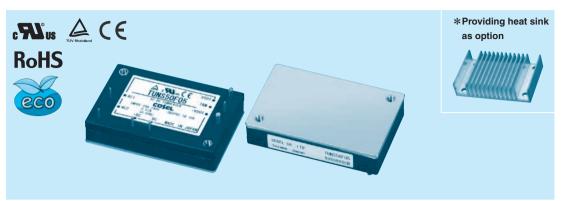
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China







50 F



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

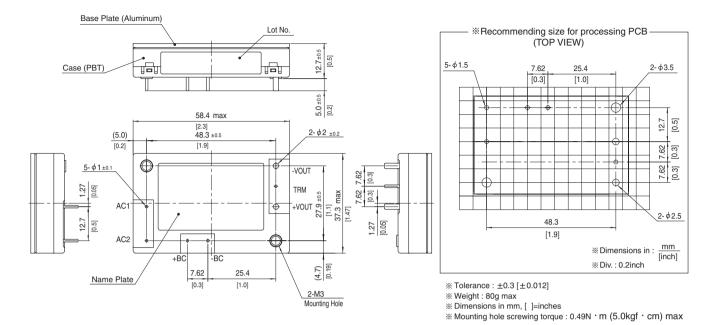
	CURRENT[A]		0.67typ (lo=100%)					
	CONNENT[A]	ACIN 200V	0.35typ (lo=100%)					
	FREQUENCY[Hz]		50/60 (47 - 63)					
INPUT	EFFICIENCY[%]	ACIN 100V	79typ	83typ	84typ			
INFOI	EFFICIENCT[%]	ACIN 200V	81typ	84typ	86typ			
	POWER FACTOR (Io=100%)		0.95typ					
	FOWER PACTOR (IO=100/6)	ACIN 200V	0.90typ					
	INRUSH CURRENT		Limited by external components (Thermistor)					
	LEAKAGE CURREN	T[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[10max	24max	48max			
LOAD REGU	LOAD REGULATION		10max	24max	48max			
RIPPLE[mVp-p]		0 to +100°C *1	80max	120max	120max			
	RIPPLE[mVp-p]	-40 to 0°C *1	120max	150max	150max			
		0 to 15% Load * 1	200max	280max	380max			
OUTPUT RIPPLE NOISE[mVp-p		0 to +100°C *1	120max	150max	150max			
	RIPPLE NOISE[mVp-p]	-40 to 0°C *1	200max	200max	250max			
		0 to 15% Load * 1	280max	360max	460max			
	TEMPERATURE REGULATION[mV]	0 to +65℃		120max	240max			
		-40 to +100℃	100max	240max	480max			
	DRIFT[mV]	*2	20max	40max	90max			
	OUTPUT VOLTAGE ADJUSTMEN	IT RANGE[V]	Fixed (TRM pin open), adjustable by external resistor or external signal					
			4.50 - 6.00	10.80 - 13.20	21.60 - 26.40			
	OUTPUT VOLTAGE SET		4.97 - 5.13	11.91 - 12.29	23.62 - 24.38			
PROTECTION	OVERCURRENT PROT		Works over 105% of rating and recove	·	T			
CIRCUIT AND	OVERVOLTAGE PROTEC	CTION[V]	6.30 - 7.00	13.90 - 16.35	27.60 - 32.40			
OTHERS	REMOTE SENSING		Not provided					
	REMOTE ON/OFF		Not provided					
	INPUT-OUTPUT		AC3,000V 1minute, Cutoff current = 1	, ,				
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (20±15 $^{\circ}$ C)					
	OUTPUT-FG	ALTITUDE	AC500V 1minute, Cutoff current = 100mA, DC500V 50M 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	ALIIIUDE	-40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max 10 - 55Hz, 49.0m/s² (5G), 3minutes period, 60minutes each along X, Y and Z axis					
	VIBRATION		, , , , ,		Zaxis			
CAFETY AND	IMPACT AGENCY APPROVAL		196.1m/s ² (20G), 11ms, once each ale UL60950-1, C-UL (CSA60950-1), EN					
SAFETY AND	HARMONIC ATTENU		Complies with IEC61000-3-2 (Class A					
NOISE NEGULATIONS			58.4 × 12.7 × 37.3mm [2.3 × 0.5 × 1.4]					
OTHERS	CASE SIZE/WEIGHT		-		attached heat sink)			
				n from the aluminum base plate to the	апасней пеат SIПК)			
*1 Refer to	k1 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



- 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

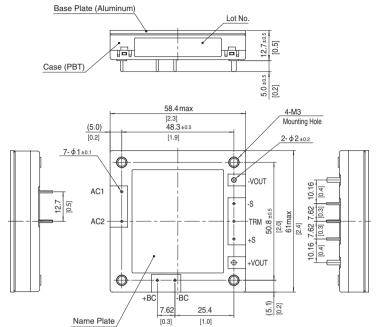
	CURRENT[A]		1.3typ (lo=100%)					
	CONNENT[A]	ACIN 200V	0.7typ (lo=100%)					
	FREQUENCY[Hz]		50/60 (47 - 63)					
INPUT	EFFICIENCY[%]	ACIN 100V	82typ	83typ	84typ			
INPUT	EFFICIENCY[%]	ACIN 200V	85typ	85typ	86typ			
	POWER FACTOR (Io=100%)	ACIN 100V	0.95typ					
	POWER FACTOR (10=100%)	ACIN 200V	0.90typ					
	INRUSH CURRENT	,	Limited by external components (Thermistor)					
	LEAKAGE CURREN	T[mA]	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[I		mV]	10max	24max	48max			
	LOAD REGULATION	[mV]	10max	24max	48max			
F		0 to +100℃*1	80max	120max	120max			
	RIPPLE[mVp-p]	-40 to 0°C *1	120max	150max	150max			
		0 to 15% Load * 1	160max	240max	240max			
OUTPUT RIPPLE		0 to +100℃*1	120max	150max	150max			
	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[IIIV]	-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		4.97 - 5.13	11.91 - 12.29	23.62 - 24.38			
PROTECTION	OVERCURRENT PROT	ECTION	Works over 105% of rating and recovers automatically					
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 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					
ENVIRONMENT	STORAGE TEMP., HUMID. AND	ALTITUDE	-40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max					
LIVIIIONIILIVI	VIBRATION		, , , , ,	eriod, 60minutes each along X, Y and 2	Z axis			
	IMPACT		196.1m/s² (20G), 11ms, once each ale					
SAFETY AND	AGENCY APPROVAL		UL60950-1, C-UL (CSA60950-1), EN					
NOISE REGULATIONS	HARMONIC ATTENU	IATOR	Complies with IEC61000-3-2 (Class A					
OTHERS	CASE SIZE/WEIGHT		58.4×12.7×61.0mm [2.3×0.5×2.4	, ,				
	COOLING METHOD		Conduction cooling (e.g. heat radiation	n from the aluminum base plate to the	attached heat sink)			
*1 Refer to	Refer to instruction manual for measuring method of electric characteristics.							

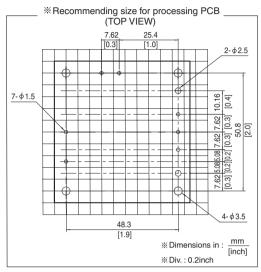
- Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.
- Please contact us about another class.



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



- Series name
 Single output
 Output wattage
- 4 Universal 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

AC85 - 264 1 φ

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

TUNS300F28

SPECIFICATIONS

MODEL

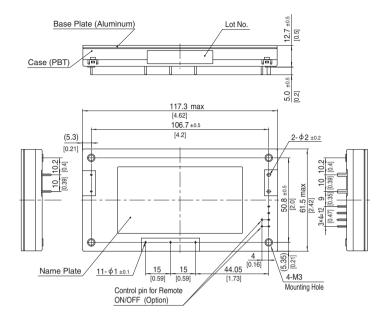
	VOLIAGE[V]		Α000 - 204 ΤΨ				
	CURRENT[A]	ACIN 100V	3.6typ (lo=100%)				
	CORNENT[A]	ACIN 200V	1.8typ (lo=100%)				
	FREQUENCY[Hz]		50/60 (47 - 63)				
INPUT	EFFICIENCY[%]	ACIN 100V	84typ	87typ	87typ		
INFOI	EFFICIENCI[/6]	ACIN 200V	86typ	89typ	90typ		
	POWER FACTOR (Io=100%)	ACIN 100V	0.96typ				
	ACIN 200V		0.93typ				
	INRUSH CURRENT		Limited by external resistance				
	LEAKAGE CURRENT	Γ[mA]	0.75max (ACIN 240V 60Hz, Io=100%, According to IEC60950-1)				
	VOLTAGE[V]		12	28	48		
	CURRENT[A]		25	11	6.5		
	LINE REGULATION[1	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		
	RIPPLE NOISE[mVp-p]	0 to +100°C * 1	150max	200max	300max		
	HIFFEE NOISE[IIIVP-P]	-40 to 0°C * 1	200max	300max	450max		
	TEMPERATURE REGULATION[mV]	0 to +65℃	120max	280max	480max		
	TEMPERATORE REQUESTION[IIIV]	-40 to +100°C	240max	560max	960max		
	DRIFT[mV] *2		40max	90max	180max		
	OUTPUT VOLTAGE ADJUSTMEN	T BANGEIVI	Fixed (TRM pin open), adjustable by external resistor or external signal				
	OUT OF VOLINGE ADDOORMEN	II IIAIIQE[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 required)				
	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 50M Ω min (20±15 $^{\circ}$ C)				
1002/111011	OUTPUT · RC-FG		AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (20±15 $^{\circ}$ C)				
	OUTPUT-RC	*4	AC100V 1minute, Cutoff current = 100				
	OPERATING TEMP.,HUMID.AND		0,1				
ENVIRONMENT	STORAGE TEMP., HUMID. AND	ALTITUDE	-40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max				
	VIBRATION		, , , , , ,	eriod, 60minutes each along X, Y and	Z axis		
	IMPACT		196.1m/s ² (20G), 11ms, once each al-				
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	to instruction manual for measuring method of electric characteristics.						

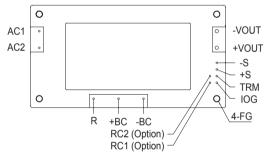
- Refer to instruction manual for measuring method of electric characteristics.
- Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.
- Please contact us about another class.
 "RC" is applicable when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

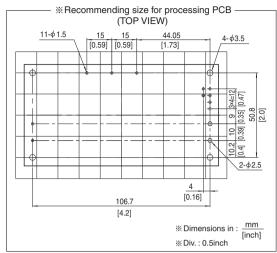




External view





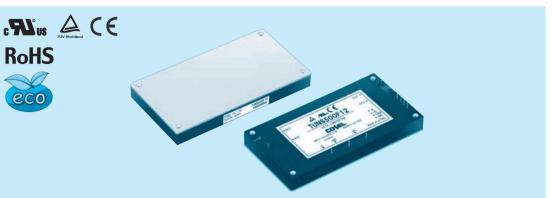


- ※ Tolerance: ±0.3 [±0.012]
- * Weight : 190g max
- ※ Dimensions in mm, []=inches
- Mounting hole screwing torque: 0.49N · m (5.0kgf · cm) max

TUNS500F

Ordering information

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

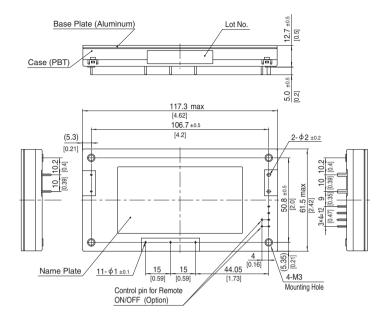
MODEL

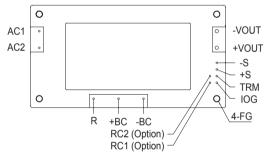
VOLIAGE[V]			Α003 - 204 ΤΨ				
	CURRENT[A]	ACIN 100V	6.0typ (lo=100%)				
	CONNENT[A]	ACIN 200V	3.0typ (lo=100%)				
	FREQUENCY[Hz]		50/60 (47 - 63)				
INPUT	EFFICIENCY[%]	ACIN 100V	84typ	87typ	88typ		
INFUI	EFFICIENCI[%]	ACIN 200V	86typ	90typ	90.5typ		
	POWER FACTOR (Io=100%)	ACIN 100V	0.96typ				
	ACIN 200V		0.93typ				
	INRUSH CURRENT		Limited by external resistance				
	LEAKAGE CURRENT	Γ[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[1	nV]	24max	56max	96max		
	LOAD REGULATION	[mV]	24max	56max	96max		
	RIPPLE[mVp-p]	0 to +100°C * 1	120max	180max	250max		
	niPPLE[iiivp-p]	-40 to 0°C *1	150max	200max	300max		
OUTPUT R	RIPPLE NOISE[mVp-p]	0 to +100℃*1	150max	200max	300max		
OUIPUI	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°C	240max	560max	960max		
	DRIFT[mV] *2		40max	90max	180max		
	OUTPUT VOLTAGE ADJUSTMEN	T DANGEIVI	Fixed (TRM pin open), adjustable by external resistor or external signal				
	OUTFUT VOLIAGE ADJUSTIMEN	I NANGE[V]	9.60 - 14.40	22.40 - 33.60	38.40 - 52.80 (-Y1 Option : 38.4 - 57.6)		
	OUTPUT VOLTAGE SET	ring[v]	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 red				
	INPUT-OUTPUT · RC	*5	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (20 \pm 15 $^{\circ}$ C)				
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (20±15 $^{\circ}$ C)				
ISOLATION	OUTPUT · RC-FG	*5	AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (20±15 $^{\circ}$ C)				
	OUTPUT-RC	*5	AC100V 1minute, Cutoff current = 100				
	OPERATING TEMP., HUMID. AND		-40 to +100℃ (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				
LIVIIIONIMENT	VIBRATION		, , , , ,	eriod, 60minutes each along X, Y and	Zaxis		
	IMPACT		196.1m/s ² (20G), 11ms, once each ale				
SAFETY AND	AGENCY APPROVAL	.S	UL60950-1, C-UL (CSA60950-1), EN				
NOISE REGULATIONS	HARMONIC ATTENU	ATOR	Complies with IEC61000-3-2 (Class A	· <u>'</u>			
OTHERS	CASE SIZE/WEIGHT		117.3×12.7×61.5mm [4.62×0.5×2	, , ,			
OTTLENS	COOLING METHOD		Conduction cooling (e.g. heat radiation	n from the aluminum base plate to the	attached heat sink)		
*1 Refer to	to instruction manual for measuring method of electric characteristics.						

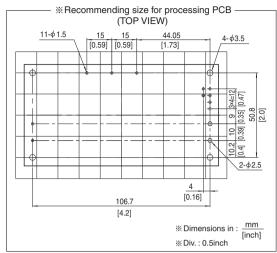
- Refer to instruction manual for measuring method of electric characteristics.
- Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.
- () means peak current. Avoid operating with peak current continuously. 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.)
- Please contact us about another class.
- *****5 "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



*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.

 $\mbox{\$ If remote sensing is not necessary, connect between +Vout & +S and between -Vout & -S.}$

(1)Series	name

- ②Single output③Output 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)

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	•			
	CUDDENTIAL	ACIN 100V	8.6typ (lo=100%)				
FREQUENCY[Hz] INPUT EFFICIENCY[%]	CURRENT[A]	ACIN 200V	4.1typ (Io=100%)				
	FREQUENCY[Hz]		50/60 (47 - 63)				
	EFFICIENCY[9/1	ACIN 100V	83typ	86typ	87typ		
	ACIN 200V	86typ	89typ	90typ			
	POWER FACTOR	ACIN 100V	0.96typ	•			
	(lo=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]		58.4	25	14.6		
	LINE REGULATION[24max	56max	96max		
	LOAD REGULATION	[mV]	24max	56max	96max		
RIPPLE[mVp-p]	0 to +100℃*1	120max	180max	250max			
	nierce[iiivp-p]	-40 to 0°C *1	150max	200max	300max		
OUTPUT	RIPPLE NOISE[mVp-p]	0 to +100℃*1	150max	200max	300max		
OUTPUT	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 ADJUSTMEN	IT	Fixed (TRM pin open), adjustable by	external resistor or external signal			
	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 recov	ers automatically			
PROTECTION	OVERVOLTAGE PROTEC	CTION[V]	15.00 - 16.80	35.00 - 39.20	55.20 - 64.80 (-Y1 Option : 60.0 - 67.2)		
CIRCUIT AND	REMOTE SENSING		Provided				
OTHERS	REMOTE ON/OFF		Optional (External power supply is re	quired)			
MODEL			TUNS700F12-P	TUNS700F28-P	TUNS700F48-P		
MAX OUTPU	JT WATTAGE[W]		700.8	700.0	700.8		
DC OUTPUT			12V 58 4A	28V 25A	48V 14 6A		

DC OUTPUT 12V 58.4A 28V 25A 48V 14.6A

SPECIFICATIONS

	MODEL		TUNS700F12-P	TUNS700F28-P	TUNS700F48-P	
	VOLTAGE[V]		AC85 - 264 1 φ			
	ACIN 100V	8.6typ (lo=100%)				
	CURRENT[A]	ACIN 200V	4.1typ (lo=100%)			
	FREQUENCY[Hz]		50/60 (47 - 63)			
INPUT	EFFICIENCY[%]	ACIN 100V	83typ	86typ	87typ	
NFUI	EFFICIENCY[%]	ACIN 200V	86typ	89typ	90typ	
	POWER FACTOR	ACIN 100V	0.96typ		<u> </u>	
	(lo=100%)	ACIN 200V	0.93typ			
	INRUSH CURRENT		Limited by external resistance			
	LEAKAGE CURRENT[mA]		0.75max (ACIN 240V 60Hz, lo=100%, According to IEC60950-1)			
	VOLTAGE[V]		12	28	48	
	CURRENT[A]		58.4	25	14.6	
	VOLTAGE ACCUR		+5, -3	+5, -3	+5, -3	
		0 to +100°C *1	240max	360max	600max	
DUTPUT	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	
	OVERCURRENT PRO		Works over 105% of rating and recov			
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 required)			





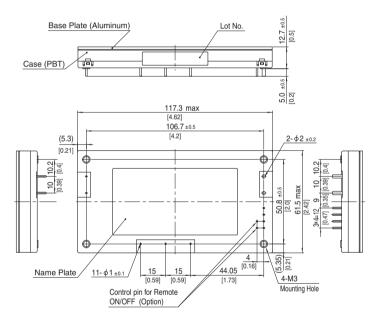
GENERAL SPECIFICATIONS

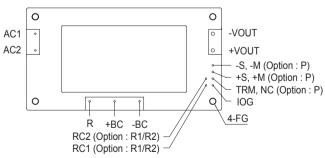
NOISE REGULATIONS HARMONIC ATTENUATOR Complies with IEC61000-3-2 (Class A) *3 CASE SIZE/WEIGHT 117.3 × 12.7 × 61.5 mm [4.62 × 0.5 × 2.42 inches] (W × H × D) / 190g max			·
OUTPUT · RC-FG	ISOLATION	INPUT-OUTPUT · RC *4	AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (20±15 $^{\circ}$ C)
OUTPUT · 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) OPERATINGTEMP,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 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 MOSE REGULATIONS AGENCY APPROVALS UL60950-1, C-UL (CSA60950-1), EN60950-1 NOISE REGULATIONS HARMONIC ATTENUATOR Complies with IEC61000-3-2 (Class A) *3 CASE SIZE/WEIGHT 11.7 3.×12.7 × 61.5 mm [4 62 × 0.5 × 2.42 inches] (W×H×D) / 190g max		INPUT-FG	AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (20±15 $^{\circ}$ C)
PENVIRONMENT 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 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 NOISE REGULATIONS 4GENCY APPROVALS UL60950-1, C-UL (CSA60950-1), EN60950-1 NOISE REGULATIONS 4AGENCY APPROVALS 117. 3 × 12. 7 × 61. 5mm [4.62 × 0.5 × 2.42 inches] (W × H × D) / 190g max		OUTPUT · RC-FG *4	AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (20±15°C)
## STORAGE TEMP, HUMID.AND ALTITUDE		OUTPUT-RC *4	AC100V 1minute, Cutoff current = 100mA, DC100V 10MΩ 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 NOISE REGULATIONS HARMONIC ATTENUATOR Complies with IEC61000-3-2 (Class A) *3 CASE SIZE/WEIGHT 117.3 × 12.7 × 61.5 mm [4.62 × 0.5 × 2.42 inches] (W X H X D) / 190g max	ENVIRONMENT	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
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 CASE SIZE/WEIGHT 117.3 × 12.7 × 61.5mm [4.62 × 0.5 × 2.42 inches] (W × H × D) / 190g max		STORAGE TEMP., HUMID. AND ALTITUDE	-40 to +100°C, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max
SAFETY AND AGENCY APPROVALS UL60950-1, C-UL (CSA60950-1), EN60950-1 NOISE REGULATIONS HARMONIC ATTENUATOR Complies with IEC61000-3-2 (Class A) *3 CASE SIZE/WEIGHT 117.3 × 12.7 × 61.5 mm [4.62 × 0.5 × 2.42 inches] (W × H × D) / 190g max		VIBRATION	10 - 55Hz, 49.0m/s² (5G), 3minutes period, 60minutes each along X, Y and Z axis
NOISE REGULATIONS HARMONIC ATTENUATOR Complies with IEC61000-3-2 (Class A) *3 CASE SIZE/WEIGHT 117.3 × 12.7 × 61.5 mm [4.62 × 0.5 × 2.42 inches] (W × H × D) / 190g max		IMPACT	196.1m/s² (20G), 11ms, once each along X, Y and Z axis
CASE SIZE/WEIGHT 117.3 X 12.7 X 61.5 mm [4.62 X 0.5 X 2.42 inches] (WXHXD) / 190g max	SAFETY AND NOISE REGULATIONS	AGENCY APPROVALS	UL60950-1, C-UL (CSA60950-1), EN60950-1
CASE SIZE/WEIGHT 117.3×12.7×61.5mm [4.62×0.5×2.42 inches] (W×H×D) / 190g max		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
COOLING METHOD Conduction cooling (e.g. heat radiation from the aluminum base plate to the attached heat sink)		COOLING METHOD	Conduction cooling (e.g. heat radiation from the aluminum base plate to the attached heat sink)

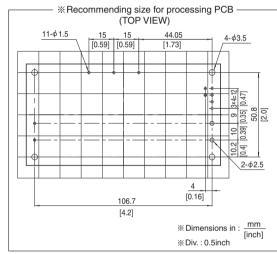
- Refer to instruction manual for measuring method of electric characteristics.

 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