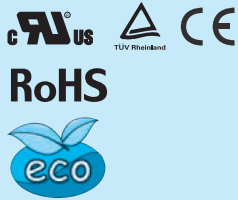


TUNS700F

TUN S 700 F 48 -□

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)
 - Y1: Output voltage 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	
INPUT	VOLTAGE[V]	AC85 - 264 1 φ			
	CURRENT[A]	ACIN 100V	8.6typ (Io=100%)		
		ACIN 200V	4.1typ (Io=100%)		
	FREQUENCY[Hz]	50/60 (47 - 63)			
	EFFICIENCY[%]	ACIN 100V	83typ	86typ	87typ
		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[ma]	0.75max (ACIN 240V 60Hz, Io=100%, According to IEC60950-1)				
OUTPUT	VOLTAGE[V]	12	28	48	
	CURRENT[A]	58.4	25	14.6	
	LINE REGULATION[mV]	24max	56max	96max	
	LOAD REGULATION[mV]	24max	56max	96max	
	RIPPLE[mVp-p]	0 to +100°C *1	120max	180max	250max
		-40 to 0°C *1	150max	200max	300max
	RIPPLE NOISE[mVp-p]	0 to +100°C *1	150max	200max	300max
		-40 to 0°C *1	200max	300max	450max
	TEMPERATURE REGULATION[mV]	0 to +65°C	120max	280max	480max
		-40 to +100°C	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			
	OUTPUT VOLTAGE SETTING[V]	9.60 - 14.40	22.40 - 33.60	38.40 - 52.80 (-Y1 Option : 38.4 - 57.6)	
	11.91 - 12.29	27.56 - 28.44	47.24 - 48.76		
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically			
	OVERVOLTAGE PROTECTION[V]	15.00 - 16.80	35.00 - 39.20	55.20 - 64.80 (-Y1 Option : 60.0 - 67.2)	
	REMOTE SENSING	Provided			
	REMOTE ON/OFF	Optional (External power supply is required)			

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

SPECIFICATIONS

	MODEL	TUNS700F12-P	TUNS700F28-P	TUNS700F48-P	
INPUT	VOLTAGE[V]	AC85 - 264 1 φ			
	CURRENT[A]	ACIN 100V	8.6typ (Io=100%)		
		ACIN 200V	4.1typ (Io=100%)		
	FREQUENCY[Hz]	50/60 (47 - 63)			
	EFFICIENCY[%]	ACIN 100V	83typ	86typ	87typ
		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[ma]	0.75max (ACIN 240V 60Hz, Io=100%, According to IEC60950-1)				
OUTPUT	VOLTAGE[V]	12	28	48	
	CURRENT[A]	58.4	25	14.6	
	VOLTAGE ACCURACY[%]	+5, -3	+5, -3	+5, -3	
	RIPPLE[mVp-p]	0 to +100°C *1	240max	360max	600max
		-40 to 0°C *1	300max	400max	700max
	RIPPLE NOISE[mVp-p]	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 CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically		
		OVERVOLTAGE PROTECTION[V]	15.00 - 16.80	35.00 - 39.20	55.20 - 64.80
		REMOTE ON/OFF	Optional (External power supply is required)		

GENERAL SPECIFICATIONS

ISOLATION	INPUT-OUTPUT · RC	*4 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 · 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)
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
	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 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
SAFETY AND NOISE REGULATIONS	AGENCY APPROVALS	UL60950-1, C-UL (CSA60950-1), EN60950-1
	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)

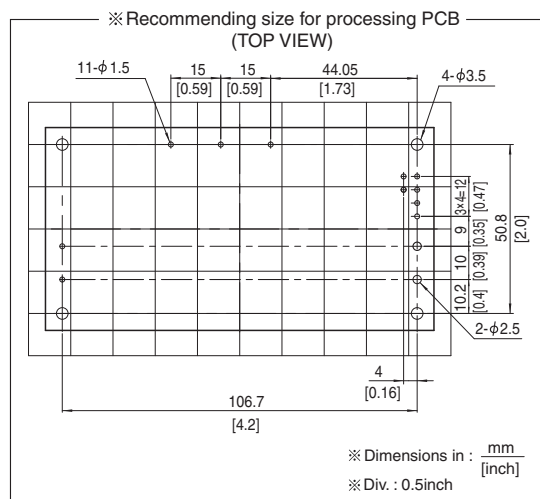
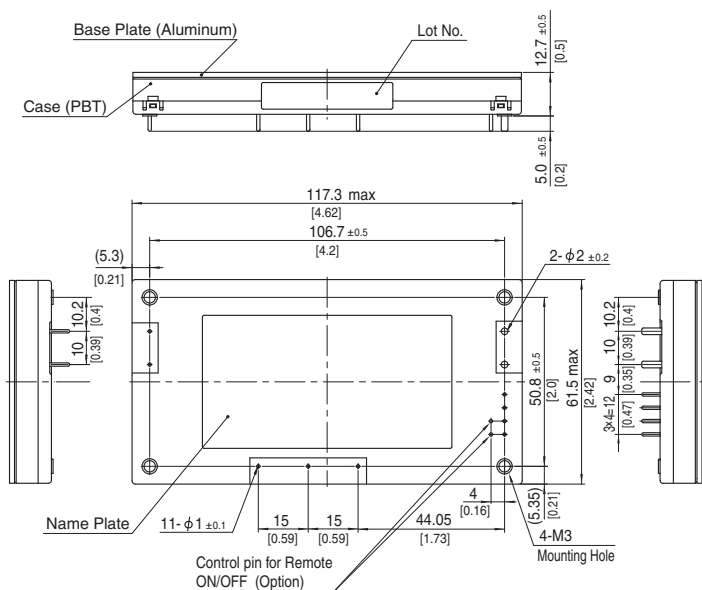
*1 Refer to instruction manual for measuring method of electric characteristics.

*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.

*4 "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

