

AC-DC Power Supplies PCB Mount Type

TUHS3

Ordering information

TUH S 3 F 05

① ② ③ ④ ⑤



RoHS



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

□ Class II

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

* To use TUHS, external components are required. Refer to the instruction manual for details.

MODEL	TUHS3F05	TUHS3F12	TUHS3F15	TUHS3F24
MAX OUTPUT WATTAGE[W]	3.00	3.00	3.00	3.12
DC OUTPUT	5V 0.6A	12V 0.25A	15V 0.2A	24V 0.13A

SPECIFICATIONS

	MODEL		TUHS3F05	TUHS3F12	TUHS3F15	TUHS3F24
INPUT	VOLTAGE[V]		AC85 - 264 1 φ DC120 - 370			
	CURRENT[A]	ACIN 100V	0.08typ (Io=100%)			
		ACIN 200V	0.05typ (Io=100%)			
	FREQUENCY[Hz]		50/60 (47 - 63)			
	EFFICIENCY[%]	ACIN 100V	79typ	81typ	81typ	81typ
		ACIN 200V	78typ	79typ	79typ	79typ
INRUSH CURRENT		Limited by external components				
OUTPUT	VOLTAGE[V]		5	12	15	24
	CURRENT[A]		0.6	0.25	0.2	0.13
	LINE REGULATION[mV]		20max	48max	60max	96max
	LOAD REGULATION[mV]		40max	100max	120max	150max
	RIPPLE[mVp-p]	30 to 100% Load *1	120max	160max	160max	200max
		0 to 30% Load AC85V - 240V *1	400max	480max	480max	580max
	RIPPLE NOISE[mVp-p]	30 to 100% Load *1	160max	200max	200max	240max
		0 to 30% Load AC85V - 240V *1	480max	560max	560max	660max
	TEMPERATURE REGULATION[mV]	0 to +85℃	100max	180max	240max	360max
		-40 to +85℃	150max	270max	360max	480max
DRIFT[mV] *2		20max	48max	60max	96max	
OUTPUT VOLTAGE SETTING[V]		4.90 - 5.30	11.40 - 12.60	14.25 - 15.75	23.00 - 25.00	
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION		Works over 105% of rating and recover automatically			
	OVERVOLTAGE PROTECTION[V]		5.50 - 8.00	13.20 - 19.20	16.50 - 24.00	26.40 - 38.40
ISOLATION	INPUT-OUTPUT		AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15℃)			
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE		-40 to +85℃, 20 - 95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000 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			
SAFETY AND NOISE REGULATIONS	AGENCY APPROVALS		UL60950-1, C-UL (CSA60950-1), EN60950-1			
	CONDUCTED NOISE		Complies with FCC-B, VCCI-B, CISPR-B, EN55022-B *3			
	HARMONIC ATTENUATOR		Complies with IEC61000-3-2 (Class A) (Not built-in to active filter)			
OTHERS	CASE SIZE/WEIGHT		28.7 X 12.7 X 17.5mm[1.13 X 0.50 X 0.69 inches] (W X H X D) / 15g max			
	COOLING METHOD		Convection / Forced air			

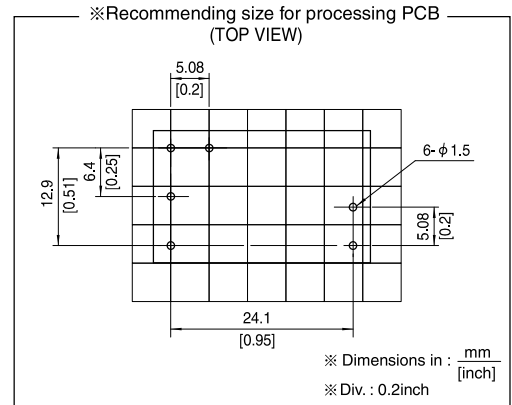
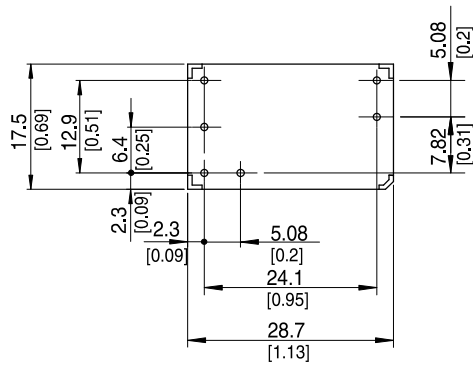
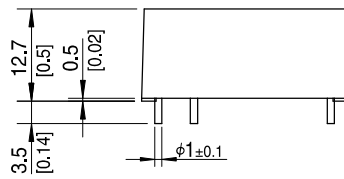
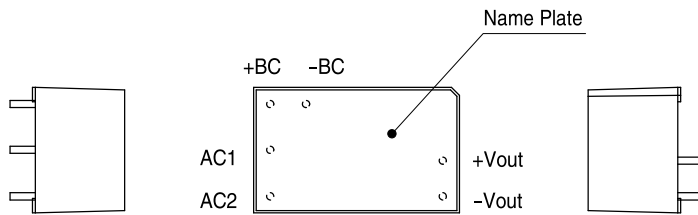
*1 Refer to instruction manual for measuring method of electric characteristics.

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

*3 Do not ground secondly circuit, in case of a standard adapted.

* Measured with 18μF capacitor as Cbc.

External view



- ※ Tolerance : ± 0.5 [± 0.02]
- ※ Weight : 15g max
- ※ Case material : PBT
- ※ Pin material : Copper
- ※ Plating treatment of pin : Lead free plating
- ※ Dimensions in mm, []=inches