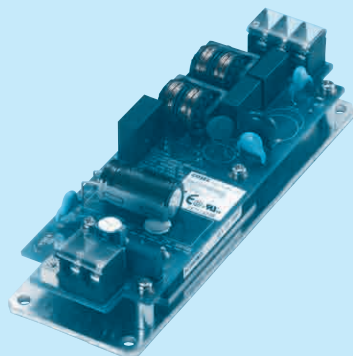


SNTUNS50

SNTUN S 50 F 05 -□

① ② ③ ④ ⑤ ⑥



Recommended EMI/EMC Filter
NAC-04-472



High voltage pulse noise type : NAP series
Low leakage current type : NAM series

*The EMI/EMC Filter is recommended
to connect with several devices.

- ① Series name
② Single output
③ Output wattage
④ Universal Input
⑤ Output voltage
⑥ Optional
C :with Coating
J :Connector type

MODEL	SNTUNS50F05	SNTUNS50F12	SNTUNS50F24
MAX OUTPUT WATTAGE[W]	50.0	50.4	50.4
DC OUTPUT	5V 10A	12V 4.2A	24V 2.1A

SPECIFICATIONS

	MODEL		SNTUNS50F05	SNTUNS50F12	SNTUNS50F24
INPUT	VOLTAGE[V]		AC85 - 264 1 ϕ (Please refer to the instruction manual 1.1 and 3.2)		
	CURRENT[A]	ACIN 100V	0.67typ (Io=100%)		
		ACIN 200V	0.37typ (Io=100%)		
	FREQUENCY[Hz]		50/60 (47 - 63)		
	EFFICIENCY[%]	ACIN 100V	76typ	80typ	81typ
		ACIN 200V	78typ	83typ	84typ
	POWER FACTOR (Io=100%)	ACIN 100V	0.95typ		
		ACIN 200V	0.90typ		
INRUSH CURRENT[A]	ACIN 100V	15typ (Io=100%) (At cold start) (Ta=25°C)			
	ACIN 200V	30typ (Io=100%) (At cold start) (Ta=25°C)			
LEAKAGE CURRENT[mA]		0.4/0.75 (ACIN 100V / 240V 60Hz, Io=100%, According to IEC60950-1 and DEN-AN)			
OUTPUT	VOLTAGE[V]		5	12	24
	CURRENT[A]		10	4.2	2.1
	LINE REGULATION[mV]		10max	24max	48max
	LOAD REGULATION[mV]		150max	100max	100max
	RIPPLE[mVp-p]	0 to +95°C *1	80max	120max	120max
		-20 to 0°C *1	140max	160max	160max
		0 to 15% Load *1	200max	280max	380max
	RIPPLE NOISE[mVp-p]	0 to +95°C *1	120max	150max	150max
		-20 to 0°C *1	200max	200max	250max
		0 to 15% Load *1	280max	360max	460max
	TEMPERATURE REGULATION[mV]	0 to +65°C	50max	120max	240max
		-20 to +95°C	100max	240max	480max
	DRIFT[mV]		*2 20max	40max	90max
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		4.50 - 5.50	10.80 - 13.20	21.60 - 26.40
OUTPUT VOLTAGE SETTING[V]		5.00 - 5.15	12.00 - 12.48	24.00 - 24.96	
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically		
	OVERVOLTAGE PROTECTION[V]		6.30 - 7.00	13.90 - 16.35	27.60 - 32.40
	REMOTE SENSING		Not provided		
	REMOTE ON/OFF		Not provided		
ISOLATION	INPUT-OUTPUT		AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (20 $\pm$ 15°C)		
	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (20 $\pm$ 15°C)		
	OUTPUT-FG		AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (20 $\pm$ 15°C)		
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE		-20 to +95°C (On aluminum base plate), 20 - 95%RH (Non condensing) *4		
	STORAGE TEMP., HUMID. AND ALTITUDE		-20 to +95°C, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max		
	VIBRATION		10 - 55Hz, 19.6m/s ² (2G), 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, EN50178 Complies with DEN-AN		
	CONDUCTED NOISE		Complies with FCC-B, VCCI-B, CISPR-B, EN55011-B, EN55022-B		
	HARMONIC ATTENUATOR		Complies with IEC61000-3-2 (Class A) *3		
OTHERS	CASE SIZE/WEIGHT		50 X 36 X 150mm [1.97 X 1.42 X 5.91 inches] (W X H X D) / 230g max		

*1 Refer to Instruction manual for measuring method of an electrical property.

*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 Refer to Instruction manual 3.2 and 3.3.

```
graph LR; AC_IN[AC IN  
85 - 264V] --- FUSE[FUSE  
AC250V 2.5A]; FUSE --- NOISE_FILTER[NOISE FILTER]; NOISE_FILTER --- INRUSH[INRUSH CURRENT PROTECTION]; INRUSH --- AC_DC[AC-DC CONVERTER  
TUN50F]; AC_DC --- FILTER[FILTER]; FILTER --- DC_OUT[DC OUT]; FG[FG] --- NOISE_FILTER; AC_DC --- CAPACITOR[CAPACITOR];
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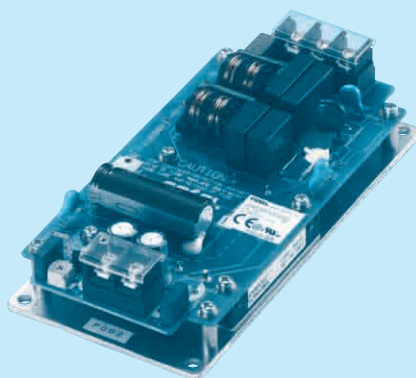
[illegible]

- * Tolerance ± 1 [± 0.04]
- * Weight : 230g max
- * Dimensions in mm, []=inches
- * PCB material / thickness : FR-4 / 1.6mm [0.06]
- * Base plate material / thickness : Aiuminum / 3.0mm [0.12]
- * Screw tightening torque M3 : 0.9N · m (9.2kgf · cm) max
- * Please connect safety ground to the base plate in $\phi 4.5$ [$\phi 0.177$] hole.

SNTUNS100

SNTUN S 100 F 05 - ☐

① ② ③ ④ ⑤ ⑥



Recommended EMI/EMC Filter
NAC-04-472



High voltage pulse noise type : NAP series
Low leakage current type : NAM series

* The EMI/EMC Filter is recommended
to connect with several devices.

- ① Series name
② Single output
③ Output wattage
④ Universal Input
⑤ Output voltage
⑥ Optional
C : with Coating
J : Connector type

MODEL	SNTUNS100F05	SNTUNS100F12	SNTUNS100F24
MAX OUTPUT WATTAGE[W]	100.0	100.8	100.8
DC OUTPUT	5V 20A	12V 8.4A	24V 4.2A

SPECIFICATIONS

	MODEL	SNTUNS100F05	SNTUNS100F12	SNTUNS100F24	
INPUT	VOLTAGE[V]		AC85 - 264 1 φ (Please refer to the instruction manua 1.1 and 3.2)		
	CURRENT[A]	ACIN 100V	1.3typ (Io=100%)		
		ACIN 200V	0.7typ (Io=100%)		
	FREQUENCY[Hz]		50/60 (47 - 63)		
	EFFICIENCY[%]	ACIN 100V	79typ	81typ	82typ
		ACIN 200V	82typ	83typ	84typ
	POWER FACTOR (Io=100%)	ACIN 100V	0.95typ		
		ACIN 200V	0.90typ		
INRUSH CURRENT[A]	ACIN 100V	20yp (Io=100%) (At cold start) (Ta=25℃)			
	ACIN 200V	40typ (Io=100%) (At cold start) (Ta=25℃)			
LEAKAGE CURRENT[mA]		0.4/0.75 (ACIN 100V / 240V 60Hz, Io=100%, According to IEC60950-1 and DEN-AN)			
OUTPUT	VOLTAGE[V]		5	12	24
	CURRENT[A]		20	8.4	4.2
	LINE REGULATION[mV]		10max	24max	48max
	LOAD REGULATION[mV]		150max	100max	100max
	RIPPLE[mVp-p]	0 to +95℃ *1	80max	120max	120max
		-20 to 0℃ *1	140max	160max	160max
		0 to 15% Load*1	160max	240max	240max
	RIPPLE NOISE[mVp-p]	0 to +95℃ *1	120max	150max	150max
		-20 to 0℃ *1	200max	200max	250max
		0 to 15% Load*1	240max	300max	300max
	TEMPERATURE REGULATION[mV]	0 to +65℃	50max	120max	240max
		-20 to +95℃	100max	240max	480max
	DRIFT[mV]		*2	20max	40max
OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		4.50 - 5.50	10.80 - 13.20	21.60 - 26.40	
OUTPUT VOLTAGE SETTING[V]		5.00 - 5.15	12.00 - 12.48	24.00 - 24.96	
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION		Works over 105% of rating and recovers automatically		
	OVERVOLTAGE PROTECTION[V]		6.30 - 7.00	13.90 - 16.35	27.60 - 32.40
	REMOTE SENSING		Optional (Option:K)	—	—
	REMOTE ON/OFF		Not provided		
ISOLATION	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 = 100mA, DC500V 50MΩ min (20±15℃)		
ENVIRONMENT	OPERATING TEMP., HUMID.AND ALTITUDE		-20 to +95℃ (On aluminum base plate), 20 - 95%RH (Non condensing) *4		
	STORAGE TEMP., HUMID.AND ALTITUDE		-20 to +95℃, 20 - 95%RH (Non condensing), 9,000m (30,000 feet) max		
	VIBRATION		10 - 55Hz, 19.6m/s ² (2G), 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, EN50178 Complies with DEN-AN		
	CONDUCTED NOISE		Complies with FCC-B, VCCI-B, CISPR-B, EN55011-B, EN55022-B		
	HARMONIC ATTENUATOR		Complies with IEC61000-3-2 (Class A) *3		
OTHERS	CASE SIZE/WEIGHT		74×37×150mm [2.91×1.46×5.91 inches] (W×H×D) / 340g max		

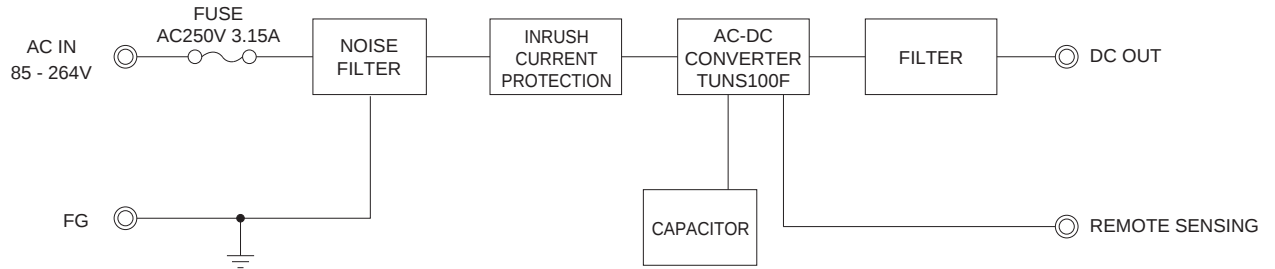
*1 Refer to Instruction manual for measuring method of an electrical property.

*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.

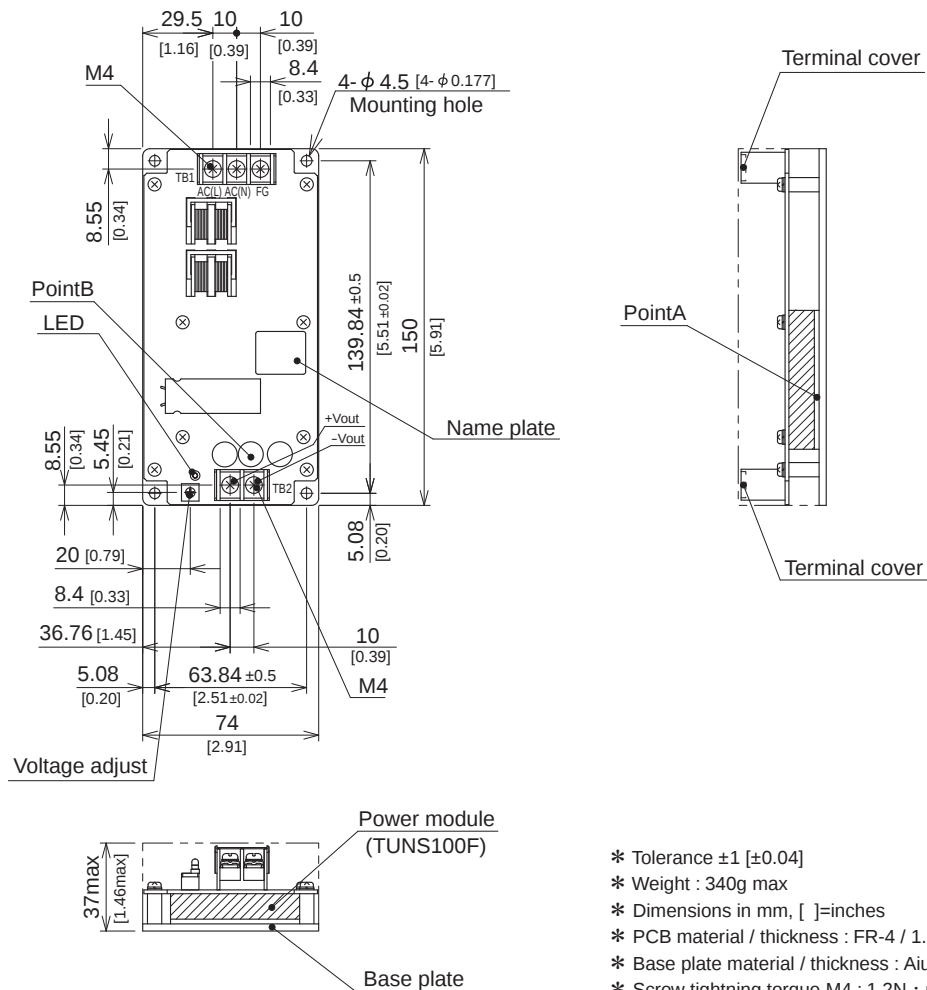
*3 Please contact us about another class.

*4 Refer to Instruction manual 3.2 and 3.3.

Block diagram



External view



- * Tolerance ± 1 [± 0.04]
- * Weight : 340g max
- * Dimensions in mm, []=inches
- * PCB material / thickness : FR-4 / 1.6mm [0.06]
- * Base plate material / thickness : Aluminium / 3.0mm [0.12]
- * Screw tightening torque M4 : 1.2N · m (12.2kgf · cm) max
- * Please connect safety ground to the base plate in $\phi 4.5$ [$\phi 0.177$] hole.

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- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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