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SNTU-series



Feature

AC-DC converter, SNTUNS50/100F series includes TUNS50/100F series. Universal input(AC85-264V) Power factor correction Harmonic attenuator (Complies with IEC61000-3-2) Built-in Inrush current , overcurrent, overvoltage and thermal protection

Safety agency approvals

UL60950-1, C-UL, EN62368-1 Complies with DEN-AN

3-year warranty

CE marking

Low voltage directive RoHS Directive

UKCA marking

Electrical Equipment Safety Regulations RoHS Regulations

Ordering information **COSEL** AC-DC Power Supplies Bus Converter · Power Module Value-added Type **SNTUNS50** 50 F 05 **SNTUN** S 4 2 1 3 Series name
Single output
Output wattage
Universal Input Recommended EMI/EMC Filter NAC-04-472 **RoHS** 5 Output voltage B Optional
C :with Coating
J :Connector type High voltage pulse noise type : NAP series Low leakage current type : NAM series eco *The EMI/EMC Filter is recommended to connect with several devices.

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

M	IODEL		SNTUNS50F05	SNTUNS50F12	SNTUNS50F24	
	VOLTAGE[V]			r to the instruction manual 1.1 and 3.		
	ACIN 100V		0.67typ (lo=100%)			
C	URRENT[A]	ACIN 200V	0.37typ (lo=100%)			
FI	FREQUENCY[Hz]		50/60 (47 - 63)			
	EFFICIENCY[%]	ACIN 100V		80typ	81typ	
		ACIN 200V		83typ	84typ	
	POWER FACTOR (lo=100%)	ACIN 100V	0.95typ			
PC		ACIN 200V	0.90typ			
		ACIN 100V	15typ (Io=100%) (At cold start) (Ta=25℃)			
	IRUSH CURRENT[A]	ACIN 200V	30typ (Io=100%) (At cold start) (Ta=25℃)			
LE	LEAKAGE CURRENT[mA]		0.4/0.75 (ACIN 100V / 240V 60Hz, Io=100%, According to IEC62368-1 and DEN-AN)			
V	OLTAGE[V]		5	12	24	
C	CURRENT[A]		10	4.2	2.1	
LI	LINE REGULATION[mV]		10max	24max	48max	
L	OAD REGULATION	[mV]	150max	100max	100max	
		0 to +95°C *1	80max	120max	120max	
R	IPPLE[mVp-p]	-20 to 0°C *1	140max	160max	160max	
		0 to 15% Load * 1	200max	280max	380max	
UTPUT	RIPPLE NOISE[mVp-p]	0 to +95℃ *1	120max	150max	150max	
RI		-20 to 0°C *1	200max	200max	250max	
		0 to 15% Load * 1	280max	360max	460max	
ТЕ	MPERATURE REGULATION[mV]	0 to +65℃	50max	120max	240max	
		-20 to +95℃	100max	240max	480max	
	DRIFT[mV] *2		20max	40max	90max	
OU	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		4.50 - 5.50	10.80 - 13.20	21.60 - 26.40	
01	OUTPUT VOLTAGE SETTING[V]		5.00 - 5.15	12.00 - 12.48	24.00 - 24.96	
OVERCURRENT PROTEC			Works over 105% of rating a	nd recovers automatically		
	OVERVOLTAGE PROTECTION[V]		6.30 - 7.00	13.90 - 16.35	27.60 - 32.40	
THERS	EMOTE SENSING		Not provided			
R	REMOTE ON/OFF		Not provided			
IN	NPUT-OUTPUT		AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (20±15°C)			
	NPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (20±15°C)			
	OUTPUT-FG		AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (20±15°C)			
OP	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			
V	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			
	AGENCY APPROVALS		UL60950-1, C-UL (CSA60950-1), EN62368-1 Complies with DEN-AN			
DISE REGULATIONS	ONDUCTED NOISE		Complies with FCC-B, VCCI-B, CISPR-B, EN55011-B, EN55022-B		-В	
H	HARMONIC ATTENUATOR		Complies with IEC61000-3-2 (Class A) *3			
OTHERS C	ASE SIZE/WEIGHT		50×36×150mm [1.97×1.42	2×5.91 inches] (W×H×D) / 230g m	าลx	

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

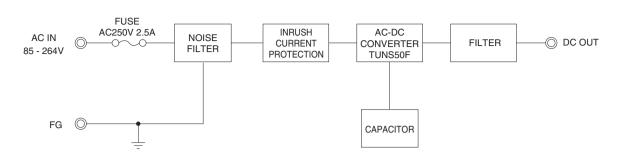
*****2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C, with the input voltage held constant at the rated input/output.

*3

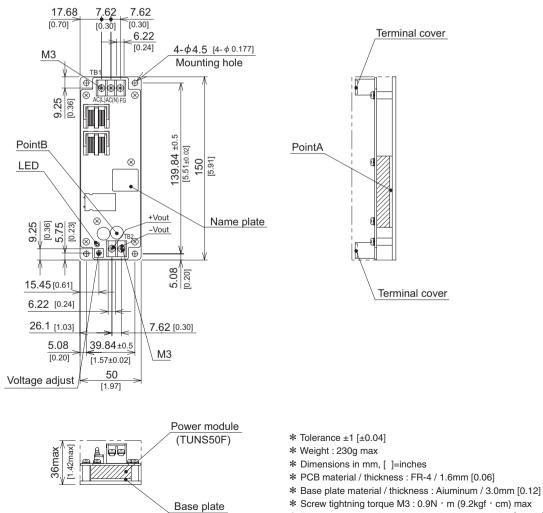
Please contact us about another class. Refer to Instruction manual 3.2 and 3.3. *4

SNTUNS50 COSEL

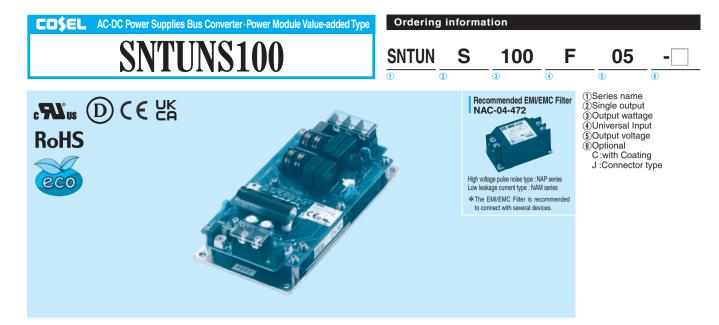




External view



* Please connect safety ground to the base plate in ϕ 4.5 [ϕ 0.177] hole.



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

M	IODEL		SNTUNS100F05	SNTUNS100F12	SNTUNS100F24	
V	VOLTAGE[V]		AC85 - 264 1 ¢ (Please refer to the instruction manua 1.1 and 3.2)			
E.		ACIN 100V	V 1.3typ (lo=100%)			
C	URRENT[A]	ACIN 200V	0.7typ (lo=100%)			
F	FREQUENCY[Hz]		50/60 (47 - 63)			
-	EFFICIENCY[%]	ACIN 100V	79typ	81typ	82typ	
		ACIN 200V	82typ	83typ	84typ	
	POWER FACTOR (lo=100%)	ACIN 100V	0.95typ			
P		ACIN 200V	/ 0.90typ			
		ACIN 100V	20yp (Io=100%) (At cold start) (Ta=25°C)			
IN	RUSH CURRENT[A]	ACIN 200V	40typ (lo=100%) (At cold start) (Ta=25°C)			
L	LEAKAGE CURRENT[mA]		0.4/0.75 (ACIN 100V / 240V 60Hz, Io=100%, According to IEC62368-1 and DEN-AN)			
V	OLTAGE[V]		5	12	24	
С	URRENT[A]		20	8.4	4.2	
L	INE REGULATION[I	mV]	10max	24max	48max	
L	LOAD REGULATION[mV]		150max	100max	100max	
		0 to +95°C *1	80max	120max	120max	
R	IPPLE[mVp-p]	-20 to 0°C *1	140max	160max	160max	
		0 to 15% Load * 1	160max	240max	240max	
υτρυτ		0 to +95°C *1	120max	150max	150max	
RI	RIPPLE NOISE[mVp-p]	-20 to 0°C *1	200max	200max	250max	
		0 to 15% Load * 1	240max	300max	300max	
		0 to +65°C	50max	120max	240max	
IE IE	TEMPERATURE REGULATION[mV]	-20 to +95℃	100max	240max	480max	
D	DRIFT[mV] *2		20max	40max	90max	
OL	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		4.50 - 5.50	10.80 - 13.20	21.60 - 26.40	
0	OUTPUT VOLTAGE SETTING[V]		5.00 - 5.15	12.00 - 12.48	24.00 - 24.96	
0	VERCURRENT PROT	ECTION	Works over 105% of rating and recov	ers automatically	÷	
ROTECTION	VERVOLTAGE PROTEC	CTION[V]	6.30 - 7.00	13.90 - 16.35	27.60 - 32.40	
	REMOTE SENSING		Optional (Option:K)	-	-	
	REMOTE ON/OFF		Not provided			
IN	IPUT-OUTPUT		AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (20±15°C)			
SOLATION IN	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (20±15°C)			
	UTPUT-FG		AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (20±15℃)			
OF	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			
IN	IMPACT		196.1m/s ² (20G), 11ms, once each along X, Y and Z axis			
	AGENCY APPROVALS		UL60950-1, C-UL (CSA60950-1), EN62368-1 Complies with DEN-AN			
AFETY AND OISE REGULATIONS	CONDUCTED NOISE		Complies with FCC-B, VCCI-B, CISPR-B, EN55011-B, EN55022-B			
H	HARMONIC ATTENUATOR		Complies with IEC61000-3-2 (Class A) *3			
OTHERS C	ASE SIZE/WEIGHT		74×37×150mm [2.91×1.46×5.91	inches] (W×H×D) / 340g max		

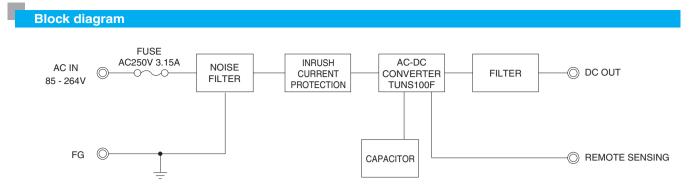
*1 Refer to Instruction manual for measuring method of an electrical property.

*****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.

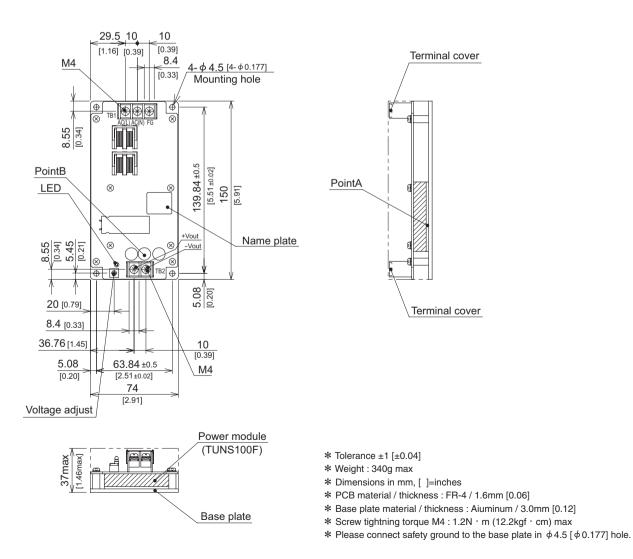
*3

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External view



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Mouser Electronics

Authorized Distributor

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Cosel: SNTUNS100F24 SNTUNS100F05 SNTUNS50F24