

SPECIFICATIONS

	MODEL		ADA600F-24	ADA600F-30	ADA600F-36	ADA600F-48	
	VOLTAGE[V]		AC85 - 264 1 \$\phi\$ or DC 120	- 350 (AC64 or DC90 optiona	ally available *6)	•	
	FREQUENCY[Hz]		50/60 (47 - 63) or DC				
INPUT		ACIN 100V	84typ (lo=100%)	86typ (lo=100%)	86typ (lo=100%)	86typ (lo=100%)	
	EFFICIENCY[%]	ACIN 200V	86typ (lo=100%)	87typ (lo=100%)	87typ (lo=100%)	89typ (lo=100%)	
			0.99typ (lo=100%)				
	POWER FACTOR		0.98typ (lo=100%)				
		ACIN 100V *1	20typ (lo=100%) (More than	3sec.to re-start)			
	INRUSH CURRENT[A]	ACIN 200V *1	40typ (lo=100%) (More than 3sec.to re-start)				
	LEAKAGE CURRENT[mA]		0.75max (60Hz, According to IEC60950 and DEN-AN) (Io=100%)				
	VOLTAGE[V]		24	30	36	48	
		ACIN 100V *2	14 (Peak 25) convection	11 (Peak 20) convection	9 (Peak 16.5) convection	6.5 (Peak 12.5) convection	
		ACIN 100V *2	21 (Peak 25) forced air	16.5 (Peak 20) forced air	14 (Peak 16.5) forced air	10.5 (Peak 12.5) forced ai	
	CURRENT[A]	ACIN 200V *2	15 (Peak 31) convection	12 (Peak 24.5) convection	10 (Peak 20.5) convection	7 (Peak 15.5) convection	
		ACIN 200V **2	25 (Peak 31) forced air	20 (Peak 24.5) forced air	16.5 (Peak 20.5) forced air	12.5 (Peak 15.5) forced ai	
	LINE REGULATION[I		96max	120 (1 eak 24.3) loiced all	144max	192max	
	LOAD REGULATION		150max	180max	240max	300max	
	LOVE RECOLATION	0 to +50℃ *3	120max	160max	200max	200max	
OUTPUT	RIPPLE[mVp-p]	-10 - 0°C *3	160max	230max	260max	300max	
011 01		0 to +50℃ *3		190max	230max	250max	
	RIPPLE NOISE[mVp-p]	-10 - 0°C *3	180max	250max	280max	400max	
	TEMPERATURE REGULATION[mV]		240max	300max	360max	480max	
			96max	120max	144max	192max	
	DRIFT[mV] *4 START-UP TIME[ms]		500max (ACIN 100V, Io=100%)				
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%)				
				27.0 - 33.0	33.0 - 41.0	41.0 - 52.8	
	OUTPUT VOLTAGE SETTING[V]		23.5 - 24.5 29.0 - 31.0 35.0 - 37.0 47.0 - 49.0 Works over 101% of peak current and recovers automatically 47.0 - 49.0 47.0 - 49.0				
			31 - 34.5			64 - 76	
ROTECTION	OVERVOLTAGE PROTECTION[V] OPERATING INDICATION			40 - 48	51 - 60	04 - 70	
THERS		TION	LED (Green) Detecting low input voltage(PF), detecting low output voltage(LV). (Optional : -W, refer to Instruction Manual 5)				
	REMOTE ON/OFF(RC)		Requirement for external source (Option : -R, refer to Instruction Manual 5)				
		*5					
SOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature) AC500V 1minute, Cutoff current = 100mA, DC500V 50M Ω min (At Room Temperature)				
			-10 to +71°C, 20 - 90%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max -20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max				
ENVIRONMENT	STORAGE TEMP.,HUMID.AND ALTITUDE		10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis				
	VIBRATION		196.1m/s ² (20G), 11ms, once each X, Y and Z axis				
AFETY AND	AGENCY APPROVALS		UL60950-1, C-UL(CSA60950-1), EN60950-1, EN60965, EN50178 Complies with DEN-AN and IEC60950-1 (At only AC input				
			Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B				
	HARMONIC ATTENUATOR		Complies with IEC61000-3-2 *8				
OTHERS	CASE SIZE/WEIGHT		65×127×195mm [2.56×5×7.68 inches] (W×H×D) (without terminal block) /1.5kg max				
	COOLING METHOD		Convection/Forced air				

*1 The value is primary surge. The current of input surge to a built-in EMI/EMC Filter (0.2ms or less) is excluded.

*2 Peak loading for 10sec.And Duty 35% max.Refer to Instruction Manual 4.Forced air is shown in Instruction Manual 2.3.

*3 This is the value that measured on measuring board with capacitor of 22 µ F within 150mm from output terminal.Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM101).

- *4 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 2 with the input voltage held constant at the rated input/output.
- *5 Applicable when remote control (optional) is added.

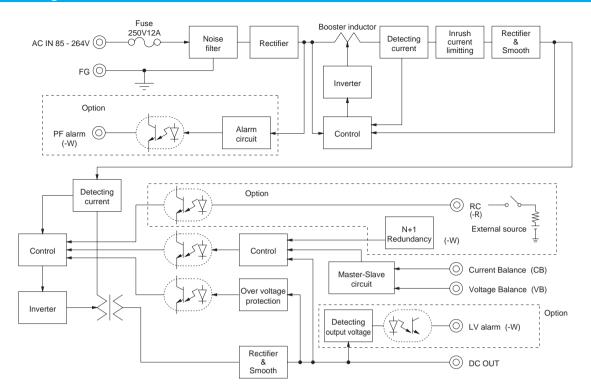
*6 Derating is required.Consult us for details.

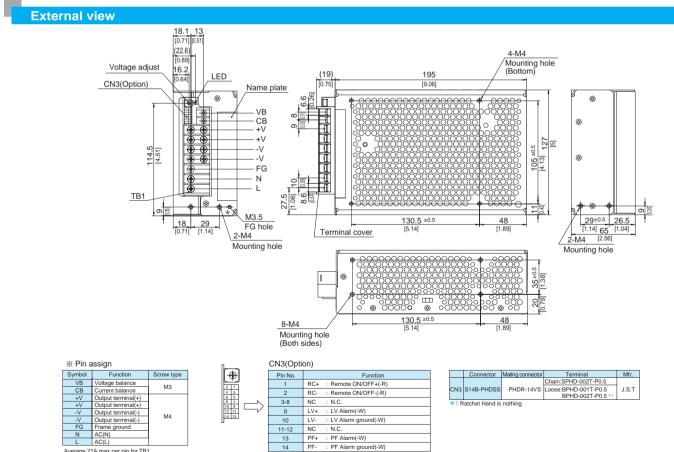
- *7 Please contact us about safety approvals for the model with option.
 *8 Please contact us about class C.
- A sound may occur from power supply at pulse loading.

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Block diagram





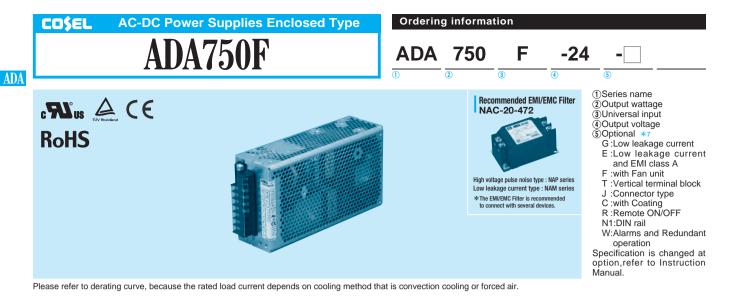
: PF Alarm ground(-W)

14 PF-

Average 21A max per pin for TB1

Tolerance : ±1 [±0.04]
Weight : 1.5kg max
PCB material / thickness : FR-4 / 1.6mm [0.06]
Chassis and cover material : aluminium

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SPECIFICATIONS

	MODEL		ADA750F-24	ADA750F-30	ADA750F-36	ADA750F-48	
	VOLTAGE[V]		AC85 - 264 1 ¢ or DC 120 -	350 (AC64 or DC90 optional	lly available * 6)		
	FREQUENCY[Hz]		50/60 (47 - 63) or DC				
INPUT		ACIN 100V	86typ (Io=100%)	86typ (lo=100%)	87typ (lo=100%)	87typ (lo=100%)	
	EFFICIENCY[%]		88typ (lo=100%)	88typ (lo=100%)	89typ (lo=100%)	89typ (lo=100%)	
		ACIN 100V	71 (
	POWER FACTOR	ACIN 200V	VI				
		ACIN 100V *1	20typ (lo=100%) (More than	3sec.to re-start)			
	INRUSH CURRENT[A]	ACIN 200V *1	40typ (Io=100%) (More than 3sec.to re-start)				
	LEAKAGE CURRENT[mA]		0.75max (60Hz, According to IEC60950 and DEN-AN) (Io=100%)				
	VOLTAGEIVI		24	30	36	48	
		ACIN 100V *2	17 (Peak 42) convection	13.5 (Peak 33.5) convection		8 (Peak 21) convection	
		ACIN 100V *2	25 (Peak 42) forced air	20 (Peak 33.5) forced air	16.5 (Peak 28) forced air	12.5 (Peak 21) forced air	
	CURRENT[A]	ACIN 200V *2	19 (Peak 63) convection	15 (Peak 50) convection	12.5 (Peak 42) convection	9 (Peak 31.5) convection	
		ACIN 200V **2	31.5 (Peak 63) forced air	24.5 (Peak 50) forced air	20.5 (Peak 42) forced air	15.5 (Peak 31.5) forced ai	
	LINE REGULATION[I		96max	120max	144max	192max	
	LOAD REGULATION	-	150max	180max	240max	300max	
	LOAD RECOLATION	0 to +50℃ *3	120max	160max	200max	200max	
UTPUT	RIPPLE[mVp-p]	-10 - 0°C *3	160max	230max	260max	300max	
		0 to +50°C *3	150max	190max	230max	250max	
	RIPPLE NOISE[mVp-p]	-10 - 0°C *3	180max	250max	280max	400max	
	TEMPERATURE REGULATION[mV]			300max	360max	400max 480max	
	· · ·	010+300	96max	120max	144max	192max	
	DRIFT[mV] *4				1441118X	1921118X	
	START-UP TIME[ms]		500max (ACIN 100V, Io=100%)				
	HOLD-UP TIME[ms] OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		20typ (ACIN 100V, Io=100% 21.6 - 27.0	27.0 - 33.0	33.0 - 41.0	41.0 - 52.8	
	OUTPUT VOLTAGE SETTING[V]		23.5 - 24.5 29.0 - 31.0 35.0 - 37.0 47.0 - 49.0 Works over 101% of peak current and recovers automatically				
					· ·	04 70	
ROTECTION	OVERVOLTAGE PROTEC		31 - 34.5	40 - 48	51 - 60	64 - 76	
THERS	OPERATING INDICATION		LED (Green)				
	ALARM OUTPUT	2)	Detecting low input voltage(PF), detecting low output voltage(LV). (Optional : -W, refer to Instruction Manual 5)				
	REMOTE ON/OFF(RC)		Requirement for external source (Option : -R, refer to Instruction Manual 5)				
	INPUT-OUTPUT · RC	*5					
SOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)				
	OUTPUT · RC-FG *5		AC500V 1minute, Cutoff current = 100mA, DC500V 50MΩ min (At Room Temperature)				
	OPERATING TEMP., HUMID. AND ALTITUDE		3, , , , , , , , , , , , , , , , , , ,				
NVIRONMENT	STORAGE TEMP., HUMID.AND ALTITUDE						
	VIBRATION		10 - 55Hz, 19.6m/s ² (2G), 3minutes period, 60minutes each along X, Y and Z axis				
			196.1m/s ² (20G), 11ms, once each X, Y and Z axis				
AFETY AND			UL60950-1, C-UL(CSA60950-1), EN60950-1, EN60065, EN50178 Complies with DEN-AN and IEC60950-1 (At only AC input				
	CONDUCTED NOISE		Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B				
LOULAHONO	HARMONIC ATTENUATOR		Complies with IEC61000-3-2 *8				
OTHERS	CASE SIZE/WEIGHT		70×127×230mm [2.76×5×9.06 inches] (W×H×D) (without terminal block) /1.9kg max				
	COOLING METHOD		Convection/Forced air				

*1 The value is primary surge. The current of input surge to a built-in EMI/EMC Filter (0.2ms or less) is excluded.
*2. Real-reading for 10ee and Pittr 25% may Refer to Instruction Menual 4 Exceed on in shown

Peak loading for 10sec.And Duty 35% max.Refer to Instruction Manual 4.Forced air is shown in Instruction Manual 2.3.
*3 This is the value that measured on measuring board with capacitor of 22 µ F within 150mm

*3 This is the value that measured on measuring board with capacitor of 22 µ F within 150mm from output terminal.Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM101).

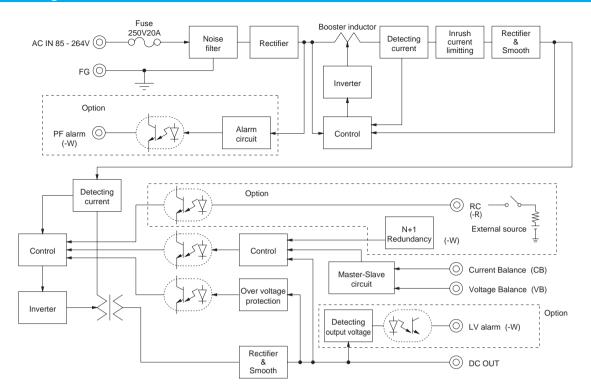
- with the input voltage held constant at the rated input/output. *5 Applicable when remote control (ontional) is added
- *5 Applicable when remote control (optional) is added.*6 Derating is required.Consult us for details.

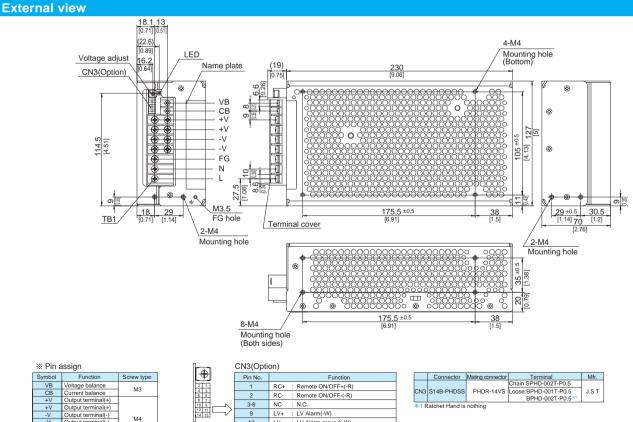
Please contact us about safety approvals for the model with option.

- *8 Please contact us about class C.
- A sound may occur from power supply at pulse loading.

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Block diagram





Remote ON/OFF-(-R)

LV Alarm ground(-W)

: PF Alarm ground(-W)

: LV Alarm(-W)

PF Alarm(-W)

: N.C. PF+

RC-NC : N.C

LV+

LV-NC

PF-

3-8

9

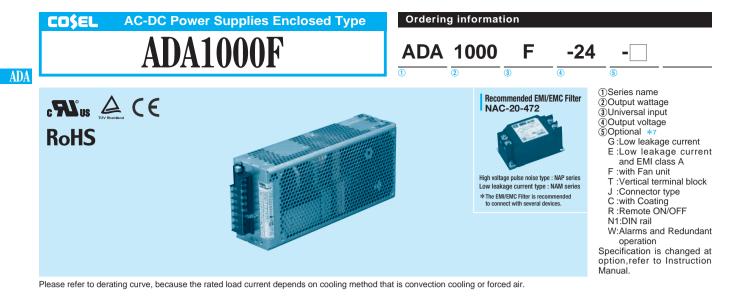
10 11-12

14

* Fill assign					
Symbol	Function	Screw type			
VB	Voltage balance	M3			
CB	Current balance				
+V	Output terminal(+)				
+V	Output terminal(+)				
-V	Output terminal(-)	M4			
-V	Output terminal(-)				
FG	Frame ground				
N	AC(N)				
	AC(L)	1			

AC(L Average 21A max per pin for TB1

% Tolerance : ±1 [=0.04]
% Weight : 1.9kg max
% PCB material / thickness : FR-4 / 1.6mm [0.06]
% Chassis and cover material : aluminium
% Dimensions in mm, []= inches
% Mounting torque : 1.2N • m(12.8kgf • cm) max
% Screw tighting torque
M4 : 1.6N • m(16.8kgf • cm) max, M3 : 0.8N • m(8.5kgf • cm) max
% U0 terminal for option-J and -T is shown in Instruction Manual 5.



SPECIFICATIONS

	MODEL		ADA1000F-24	ADA1000F-30	ADA1000F-36	ADA1000F-48	
	VOLTAGE[V]		AC85 - 264 1 \$\phi\$ or DC 120	- 350 (AC64 or DC90 optiona	ally available *6)		
	FREQUENCY[Hz]		50/60 (47 - 63) or DC				
		ACIN 100V	86typ (lo=100%)	86typ (lo=100%)	87typ (lo=100%)	87typ (lo=100%)	
INPUT	EFFICIENCY[%]	ACIN 200V	88typ (lo=100%)	88typ (lo=100%)	89typ (lo=100%)	89typ (lo=100%)	
		ACIN 100V	0.99typ (lo=100%)				
	POWER FACTOR		0.98typ (lo=100%)				
		ACIN 100V *1	20typ (Io=100%) (More tha	n 3sec.to re-start)			
	INRUSH CURRENT[A]	ACIN 200V *1	40typ (Io=100%) (More than 3sec.to re-start)				
	LEAKAGE CURRENT[mA]		0.75max (60Hz, According to IEC60950 and DEN-AN) (Io=100%)				
	VOLTAGE[V]		24	30	36	48	
		ACIN 100V *2	21 (Peak 63) convection	16.5 (Peak 50) convection	14 (Peak 42) convection	10.5 (Peak 31.5) convectio	
		ACIN 100V *2	33 (Peak 63) forced air	26 (Peak 50) forced air	22 (Peak 42) forced air	16.5 (Peak 31.5) forced ai	
	CURRENT[A]	ACIN 200V *2	25 (Peak 83) convection	20 (Peak 66) convection	16.5 (Peak 55) convection	11.5 (Peak 41.5) convectio	
		ACIN 200V **2	42 (Peak 83) forced air	33.5 (Peak 66) forced air	28 (Peak 55) forced air	21 (Peak 41.5) forced air	
	LINE REGULATION		96max	120max	144max	192max	
	LOAD REGULATION		150max	180max	240max	300max	
	LOAD RECOLATION	0 to +50℃ *3	120max	160max	200max	200max	
ουτρυτ	RIPPLE[mVp-p]	-10 - 0°C *3	160max	230max	260max	300max	
011 01		0 to +50℃ *3	150max	190max	230max	250max	
	RIPPLE NOISE[mVp-p]	-10 - 0°C *3	180max	250max	280max	400max	
	TEMPERATURE REGULATION[mV]		240max	300max	360max	480max	
		010+300	96max	120max	144max	192max	
	DRIFT[mV] *4		500max (ACIN 100V, Io=100%)				
	START-UP TIME[ms]		20typ (ACIN 100V, Io=100%)				
	HOLD-UP TIME[ms] OUTPUT VOLTAGE ADJUSTMENT RANGE[V]			27.0 - 33.0	33.0 - 41.0	41.0 - 52.8	
	OUTPUT VOLTAGE SETTING[V]		23.5 - 24.5 29.0 - 31.0 35.0 - 37.0 47 - 49 Works over 101% of peak current and recovers automatically				
			31 - 34.5		51 - 60	04 70	
ROTECTION	OVERVOLTAGE PROTECTION[V]			40 - 48	51 - 60	64 - 76	
DTHERS			LED (Green)				
	ALARM OUTPUT	2)	Detecting low input voltage(PF), detecting low output voltage(LV). (Optional : -W, refer to Instruction Manual 5)				
	REMOTE ON/OFF(RC)		Requirement for external source (Option : -R, refer to Instruction Manual 5) AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)				
	INPUT-OUTPUT · RC *5						
SOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)				
	OUTPUT · RC-FG *						
	OPERATING TEMP., HUMID. AND ALTITUDE						
NVIRONMENT	STORAGE TEMP., HUMID.AND ALTITUDE						
	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 X, Y and Z axis				
			UL60950-1, C-UL(CSA60950-1), EN60950-1, EN60965, EN50178 Complies with DEN-AN and IEC60950-1 (At only AC input				
	CONDUCTED NOISE		Complies with FCC-B, CISPR22-B, EN55022-B, VCCI-B				
LOOLAHUND	HARMONIC ATTENUATOR		Complies with IEC61000-3-2 *8				
OTHERS	CASE SIZE/WEIGHT		75×127×280mm [2.95×5×11.02 inches] (W×H×D) (without terminal block) /2.5kg max				
	COOLING METHOD		Convection/Forced air				

*1 The value is primary surge. The current of input surge to a built-in EMI/EMC Filter (0.2ms or less) is excluded.
*2 Rock regime for 10ee and Put: 25% may Refer to Instruction Menual 4 Exceed on in shown

Peak loading for 10sec.And Duty 35% max.Refer to Instruction Manual 4.Forced air is shown in Instruction Manual 2.3.
*3 This is the value that measured on measuring board with capacitor of 22 µ F within 150mm

*3 This is the value that measured on measuring board with capacitor of 22 µ F within 150mm from output terminal.Measured by 20MHz oscilloscope or Ripple-Noise meter (Equivalent to KEISOKU-GIKEN: RM101).

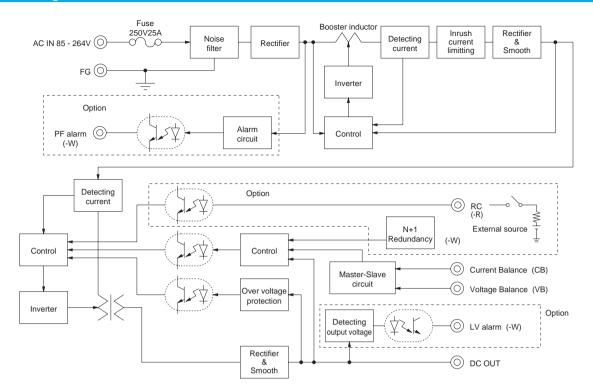
- *4 Drift is the change in DC output for an eight hour period after a half-hour warm-up at with the input voltage held constant at the rated input/output.
- *5 Applicable when remote control (optional) is added.*6 Derating is required.Consult us for details.

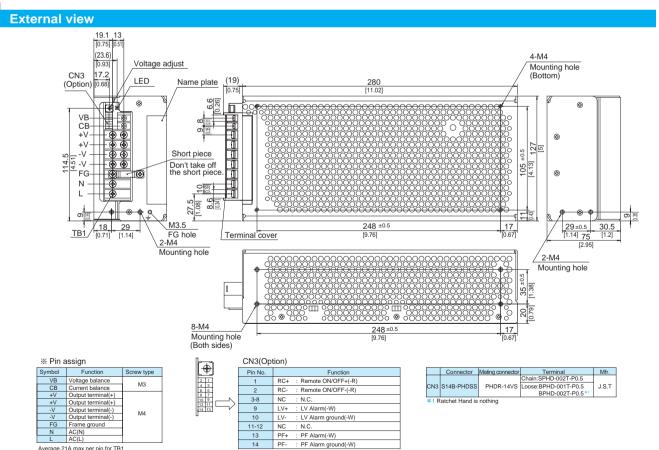
Please contact us about safety approvals for the model with option.

- *8 Please contact us about class C.
 - A sound may occur from power supply at pulse loading.

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Block diagram





Average 21A max per pin for TB1

X* Tolerance : ±1 [±0.04]
 Weigh : 2.5kg max
 PCB material / thickness : FR-4 / 1.6mm [0.06]
 Chassis and cover material : aluminium
 Dimensions in mm, []= inches
 Mounting torque : 1.2.N • m(12.8kg f • cm) max
 Screw tighting torque
 M4 : 1.6N • m(16.8kg f • cm) max, M3 : 0.8N • m(8.5kg f • cm) max
 W 10 terminal for option-J and -T is shown in Instruction Manual 5.

ADA