Ordering information

PMA15F

A 15

c Sus 🛕 (E **RoHS** eco Vertical terminal block Standard type with Cover Horizontal terminal block (option:-T1) (option:-T) (option:-N) Example recommended EMI/EMC filter NAM-04-000



Low leakage current type : NAM series *A higher current rating EMI/EMC filter may be recommended in view of the other devices that could be connected in parallel with the power supply.

- Series name
 Single output
 Output wattage
- 4)Universal input
- ⑤Output voltage
- Optional *5
 T : Vertical terminal block
 T1: Horizontal terminal block
- N: with Cover
- J1: VH(J.S.T.)connector type

Specification is changed at option, refer to Instruction Manual.

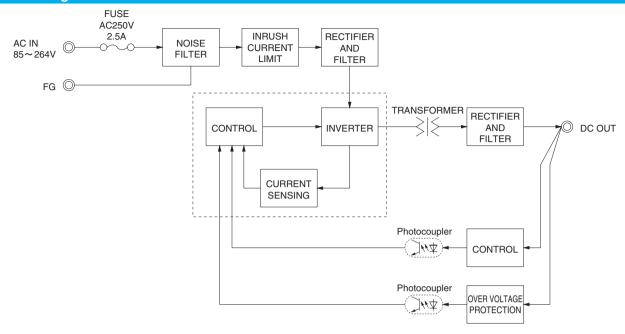
*Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

MODEL	PMA15F-3R3	PMA15F-5	PMA15F-12	PMA15F-15	PMA15F-24
MAX OUTPUT WATTAGE[W]	9.9	15	15.6	15	16.8
DC OUTPUT	3.3V 3A	5V 3A	12V 1.3A	15V 1A	24V 0.7A

SPECIFICATIONS

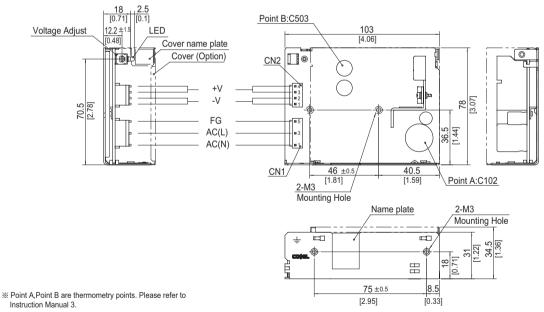
	MODEL		PMA15F-3R3	PMA15F-5	PMA15F-12	PMA15F-15	PMA15F-24		
	VOLTAGE[V]		AC85 - 264 1 φ (Refer to the Instruction Manual 1.1 and 3.2) *3						
	OUDDENTIAL	ACIN 100V	0.30typ (lo=100%)	0.40typ (lo=100%)					
INPUT	CURRENT[A]	ACIN 200V	0.15typ (lo=100%)						
	FREQUENCY[Hz]		50 / 60 (47 - 440)						
	EFFICIENCY[%]	ACIN 100V	66typ	70typ	74typ	76typ	76typ		
	EFFICIENCY[%]	ACIN 200V	67typ	74typ	78typ	79typ	79typ		
	INRUSH CURRENT[A]	ACIN 100V	15typ (lo=100%) (At o	cold start)					
	INNUSH CONNENT[A]	ACIN 200V	30typ (lo=100%) (At o	cold start)					
	LEAKAGE CURREN	T[mA]	0.05/0.10max (ACIN	100V / 240V 60Hz, lo=	100%, According to IE	C60601-1)			
	VOLTAGE[V]		3.3	5	12	15	24		
	CURRENT[A]		3.0	3.0	1.3	1.0	0.7		
	LINE REGULATION[mV]	20max	20max	48max	60max	96max		
	LOAD REGULATION		40max	40max	100max	120max	150max		
	RIPPLE[mVp-p]	0 to +50°C	80max	80max	120max	120max	120max		
	*1	-10 - 0℃	140max	140max	160max	160max	160max		
	RIPPLE NOISE[mVp-p]	0 to +50°C	120max	120max	150max	150max	150max		
OUTPUT	*1	-10 - 0℃	160max	160max	180max	180max	180max		
	TEMPERATURE REGULATION[mV]	0 to +50°C	50max	50max	120max	150max	240max		
	TEMPERATURE REGULATION[IIIV]	-10 to +50°C	60max	60max	150max	180max	290max		
	DRIFT[mV]	*2	20max	20max	48max	60max	96max		
	START-UP TIME[ms]		200typ (ACIN 100V, lo=100%) *Start-up time is 700ms typ for less than 1minute of applying input again from turning off the input voltage						
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io-	, '					
	OUTPUT VOLTAGE ADJUSTMENT		2.85 to 3.60	4.50 to 5.50	10.00 to 13.20	13.20 to 18.00	19.20 to 27.00		
	OUTPUT VOLTAGE SET		3.30 to 3.40	5.00 to 5.15	12.00 to 12.48	15.00 to 15.60	24.00 to 24.96		
PROTECTION	OVERCURRENT PROT			ating and recovers auto	<u> </u>				
CIRCUIT AND	OVERVOLTAGE PROTEC		4.00 to 5.25	5.75 to 7.00	15.00 to 18.00	20.00 to 25.00	30.00 to 37.00		
OTHERS	OPERATING INDICA	TION	LED (Green)						
	REMOTE ON/OFF		Not provided						
	INPUT-OUTPUT			utoff current = 10mA, E					
ISOLATION	INPUT-FG			utoff current = 10mA, D					
	OUTPUT-FG			off current = 25mA, DC					
	OPERATING TEMP., HUMID. AND		,	%RH (Non condensing)	· · · · · · · · · · · · · · · · · · ·				
ENVIRONMENT	STORAGE TEMP., HUMID. AND	ALTITUDE	·	%RH (Non condensing)					
	VIBRATION		, ,	2G), 3minutes period, 6		X, Y and Z axis			
	IMPACT		\	96.1m/s² (20G), 11ms, once each X, Y and Z axis					
SAFETY AND	AGENCY APPROVAL			SA-C22.2 No.601.1), EN	· · · · · · · · · · · · · · · · · · ·				
NOISE REGULATIONS	CONDUCTED NOISE		-	, VCCI-B, CISPR11-B,	· · · · · · · · · · · · · · · · · · ·				
neduLATIONS	HARMONIC ATTENU		<u>-</u>	000-3-2 (Class A) *6 (No	1		<u>, </u>		
OTHERS	CASE SIZE/WEIGHT			2 × 3.0 / × 4.06 inches]	(vv × H × D) / 230g max	(with cover : 265g max	()		
	COOLING METHOD		Convection						

- *1 Measured by 20MHz oscilloscope or Ripple-Noise meter (equivalent to KEISOKU-GIKEN: RM101).
- *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.
- *3 Derating is required.
- When two or more units are used, they may not comply with the harmonic attenuator. Please contact us for details.
- Please contact us about safety approvals for the model with option.
- Please contact us about another class.
- Parallel operation with other model is not possible.
 - Derating is required when operated with cover. A sound may occur from power supply at peak loading.



External view

* External size of option T,T1 and N is different from standard model and refer to 4 Option of instruction manual for detallis.



Instruction Manual 3.

I/O Connector		Mating Connector	Terminal	
ONIA	1-1123724-3	1-1123722-5	Chain	1123721-1
CNT	1-1123724-3	1-1123722-5	Loose	1318912-1
ONIO	4 4400700 4	1-1123722-4	Chain	1123721-1
CN2	1-1123723-4	1-1123722-4	Loose	1318912-1

(Mfr : Tyco Electronics AMP)

- % I/O Connector is Mfr.Tyco Electronics AMP % Option : -J1 : (J.S.T) connector type -T : Vertical terminal block type
- - -T1 : Horizontal terminal block type

Refer to Instruction Manual 4.

<PIN CONNECTION>

CN1		CN2	
Pin No.	Input	Pin No.	Output
1	AC(N)	1, 2	-V
2		1, 2	-v
3	AC(L)	3, 4	+V
4		3,4	T V
5	FG		

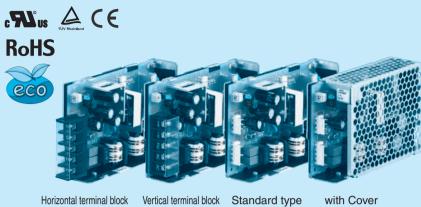
- % Tolerance : ±1 [±0.04]
- Weight: 230g max (with cover: 265g max)
- ※ PCB Material/thickness : CEM-3 / 1.6mm [0.06inches]
- $\ensuremath{\ensuremath{\%}}$ Chassis material : Electric galvanizing steel board
- $\ensuremath{\mathbb{X}}$ Keep drawing current per pin bellow 5A of CN2.

- Dimensions in mm, []=inches
 Mounting torque : 0.6N · m (6.3kgf · cm) max
 Please connect safety ground to the unit in 2-M3 holes.

Ordering information

PMA30F

30



Example recommended EMI/EMC filter NAM-04-000



Low leakage current type : NAM series *A higher current rating EMI/EMC filter may be recommended in view of the other devices that could be connected in parallel with the power supply.

- Series name
 Single output
 Output wattage
- 4)Universal input
- ⑤Output voltage
- Optional *5
 T : Vertical terminal block
 T1: Horizontal terminal block
 - N: with Cover
- J1: VH(J.S.T.)connector type

Specification is changed at option, refer to Instruction Manual.

(option:-T1) (option:-T) (option:-N)

*Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

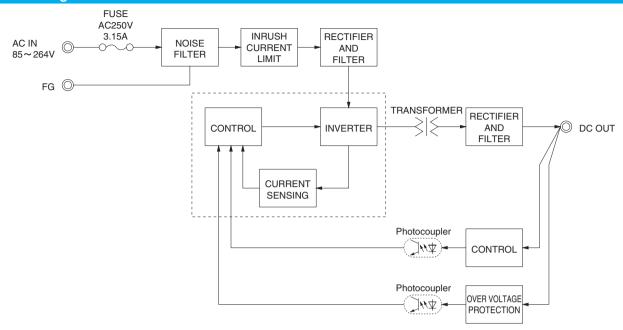
MODEL	PMA30F-3R3	PMA30F-5	PMA30F-12	PMA30F-15	PMA30F-24
MAX OUTPUT WATTAGE[W]	19.8	30	30	30	31.2
DC OUTPUT	3.3V 6A	5V 6A	12V 2.5A	15V 2A	24V 1.3A

SPECIFICATIONS

	MODEL		PMA30F-3R3	PMA30F-5	PMA30F-12	PMA30F-15	PMA30F-24			
	VOLTAGE[V]		AC85 - 264 1 φ (Refe	er to the Instruction Mar	nual 1.1 and 3.2) *3		•			
	OUDDENTIAL	ACIN 100V	0.50typ (lo=100%)	0.70typ (lo=100%)						
INPUT	CURRENT[A]	ACIN 200V	0.30typ (lo=100%)							
	FREQUENCY[Hz]		50 / 60 (47 - 440)							
	EFFICIENCY[%]	ACIN 100V	67typ	71typ	76typ	77typ	77typ			
	EFFICIENCY[%]	ACIN 200V	69typ	74typ	78typ	80typ	80typ			
	INDUCU CUDDENTIAL	ACIN 100V	15typ (lo=100%) (At o	cold start)			•			
	INRUSH CURRENT[A]	ACIN 200V	30typ (lo=100%) (At o	cold start)						
	LEAKAGE CURREN	T[mA]	0.05 / 0.10max (ACIN	I 100V / 240V 60Hz, Id	=100%, According to	IEC60601-1)				
	VOLTAGE[V]		3.3	5	12	15	24			
	CURRENT[A]		6.0	6.0	2.5	2.0	1.3			
	LINE REGULATION[mV]	20max	20max	48max	60max	96max			
	LOAD REGULATION	[mV]	40max	40max	100max	120max	150max			
	RIPPLE[mVp-p]	0 to +50℃	80max	80max	120max	120max	120max			
	*1	-10 - 0℃	140max	140max	160max	160max	160max			
	RIPPLE NOISE[mVp-p]	0 to +50℃	120max	120max	150max	150max	150max			
OUTPUT	*1	-10 - 0℃	160max	160max	180max	180max	180max			
	TEMPERATURE REGULATION[mV]	0 to +50°C	50max	50max	120max	150max	240max			
	TEMPERATURE REGULATION[IIV]	-10 to +50°C	60max	60max	150max	180max	290max			
	DRIFT[mV]	*2	20max	20max	48max	60max	96max			
	START-UP TIME[ms]		200typ (ACIN 100V, Io=100%) *Start-up time is 700ms typ for less than 1minute of applying input again from turning off the input voltage							
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%)							
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		2.85 to 3.60	4.50 to 5.50	10.00 to 13.20	13.20 to 18.00	19.20 to 27.00			
	OUTPUT VOLTAGE SET	TING[V]	3.30 to 3.40	5.00 to 5.15	12.00 to 12.48	15.00 to 15.60	24.00 to 24.96			
DDOTECTION	OVERCURRENT PROT	ECTION		rating and recovers aut	<u> </u>					
PROTECTION CIRCUIT AND	OVERVOLTAGE PROTEC	CTION[V]	4.00 to 5.25	5.75 to 7.00	15.00 to 18.00	20.00 to 25.00	30.00 to 37.00			
OTHERS	OPERATING INDICA	TION	LED (Green)							
	REMOTE ON/OFF		Not provided							
	INPUT-OUTPUT			Cutoff current = 10mA, I						
ISOLATION	INPUT-FG			Cutoff current = 10mA, I						
	OUTPUT-FG			toff current = 25mA, DO						
	OPERATING TEMP., HUMID. AND	ALTITUDE		%RH (Non condensing	,, <u>,</u> , , , ,					
ENVIRONMENT	STORAGE TEMP., HUMID. AND	ALTITUDE		%RH (Non condensing						
LIVIIIONIIILIVI	VIBRATION		10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis							
	IMPACT		· /·	ns, once each X, Y and						
SAFETY AND	AGENCY APPROVAL			SA-C22.2 No.601.1), E						
NOISE	CONDUCTED NOISE		<u> </u>	, VCCI-B, CISPR11-B,						
REGULATIONS	HARMONIC ATTENU			000-3-2 (Class A) *6 (No						
OTHERS	CASE SIZE/WEIGHT		31 × 82 × 120mm [1.2	2×3.23×4.72 inches]	(W×H×D) / 240g ma	ax (with cover : 280g m	ax)			
O.HEHO	COOLING METHOD		Convection							

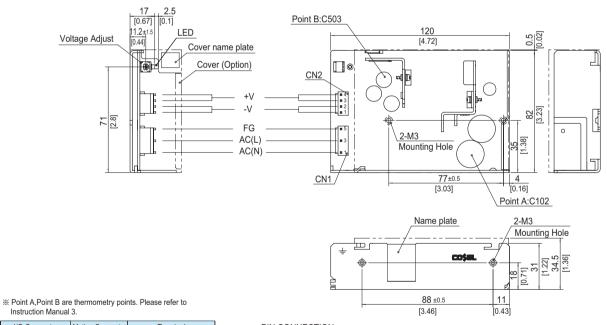
- *1 Measured by 20MHz oscilloscope or Ripple-Noise meter (equivalent to KEISOKU-GIKEN: RM101).
- *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.
- *3 Derating is required.
- *4 When two or more units are used, they may not comply with the harmonic attenuator. Please contact us for details.
- Please contact us about safety approvals for the model with option.
- Please contact us about another class.
- Parallel operation with other model is not possible. Derating is required when operated with cover.
- A sound may occur from power supply at peak loading.





External view

** External size of option T,T1 and N is different from standard model and refer to 4 Option of instruction manual for details.



Instruction Manual 3.

I/O Connector		nnector Mating Connector		Terminal		
CN1 1-1123724-3		1-1123722-5	Chain	1123721-1		
CNT	1-1123724-3	1-1123722-5	Loose	1318912-1		
2	1-1123723-4	1-1123722-4	Chain	1123721-1		
CN2	1-1123723-4	1-1123722-4	Loose	1318912-1		

(Mfr : Tyco Electronics AMP)

I/O Connector is Mfr.Tyco Electronics AMP
 Option: -J1: (J.S.T) connector type
 -T: Vertical terminal block type

-T1 : Horizontal terminal block type
Refer to Instruction Manual 4.

<pin< th=""><th>CONNECTION></th></pin<>	CONNECTION>
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CN1		CN2		
Pin No.	Input	Pin No.	Output	
1	AC(N)	1.0	-V	
2		1, 2	-v	
3	AC(L)	2.4	+V	
4		3, 4	+v	
5	FG			

※ Tolerance : ±1 [±0.04]

Weight: 240g max (with cover: 280g max)

※ PCB Material/thickness : CEM-3 / 1.6mm [0.06inches]
※ Chassis material : Aluminum

Keep drawing current per pin bellow 5A of CN2.
 Dimensions in mm, []=inches

Mounting torque : 0.49N ⋅ m (5kgf ⋅ cm) max

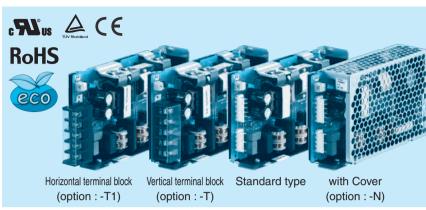
* Please connect safety ground to the unit in 2-M3 holes.

Ordering information

DMACOE 10

PMA60F

60 PM



DMACOE 2D2

Example recommended EMI/EMC filter NAM-04-000

Low leakage current type : NAM series

*A higher current rating EMI/EMC filter may be recommended in view of the other devices that could be connected

DMACOE 15

in parallel with the power supply.

Series name
 Single output
 Output wattage

4)Universal input

⑤Output voltage

Optional *5
 T : Vertical terminal block
 T1: Horizontal terminal block

N: with Cover

J1: VH(J.S.T.)connector type R: with Remote ON/OFF

Specification is changed at option, refer to Instruction Manual.

DMACOE 04

*Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

DMACOE E

MODEL	PMA60F-3R3	PMA60F-5	PMA60F-12	PMA60F-15	PMA60F-24
MAX OUTPUT WATTAGE[W]	39.6	60	60	60	60
DC OUTPUT	3.3V 12A	5V 12A	12V 5A	15V 4A	24V 2.5A

SPECIFICATIONS

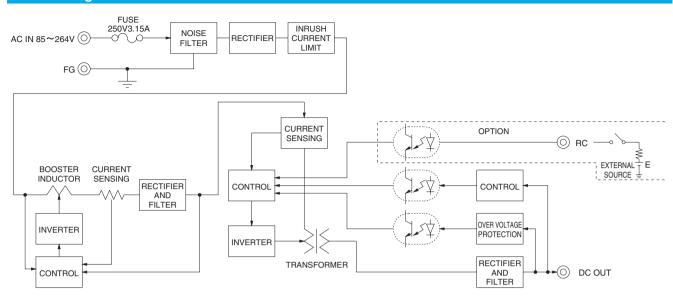
MODEL

	MODEL		PMA60F-3R3	PMA60F-5	PMA60F-12	PMA60F-15	PMA60F-24		
	VOLTAGE[V]		AC85 - 264 1 φ (Refer	r to the Instruction Man	ual 1.1)				
	CURRENT[A]	ACIN 100V	0.7typ (lo=100%)	0.8typ (lo=100%)					
	CONNENT[A]	ACIN 200V	0.4typ (lo=100%)						
	FREQUENCY[Hz]		50 / 60 (47 - 63)						
INPUT	EFFICIENCY[%]	ACIN 100V	77typ	80typ	80typ	81typ	81typ		
	EFFICIENCY[%]	ACIN 200V	78typ	83typ	82typ	83typ	83typ		
	POWER FACTOR	ACIN 100V	0.98typ						
	(Io=100%) ACIN 200V		0.85typ	0.90typ					
	INRUSH CURRENT[A]	ACIN 100V	15typ (lo=100%) (At c	old start)					
	INNOSTI CONNENT[A]	ACIN 200V	30typ (lo=100%) (At cold start)						
	LEAKAGE CURREN	T[mA]	0.09 / 0.18max (ACIN	100V / 240V 60Hz, lo	=100%, According to IE	C60601-1)			
	VOLTAGE[V]		3.3	5	12	15	24		
	CURRENT[A]		12.0	12.0	5.0	4.0	2.5		
-	LINE REGULATION[20max	20max	48max	60max	96max		
	LOAD REGULATION	[mV]	40max	40max	100max	120max	150max		
	RIPPLE[mVp-p]	0 to +50℃	80max	80max	120max	120max	120max		
	*1		140max	140max	160max	160max	160max		
	RIPPLE NOISE[mVp-p]	0 to +50℃	120max	120max	150max	150max	150max		
UTPUT	*1		160max	160max	180max	180max	180max		
	TEMPERATURE REGULATION[mV]		50max	50max	120max	150max	240max		
	TEMPERATURE REQUESTION[IIV]	-10 to +50°C	60max	60max	150max	180max	290max		
	DRIFT[mV] *2		20max	20max	48max	60max	96max		
-	START-UP TIME[ms]		250typ (ACIN 100V, Io=100%)						
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=	· '					
	OUTPUT VOLTAGE ADJUSTMENT	RANGE[V]	2.85 to 3.60	4.50 to 5.50	10.00 to 13.20	13.20 to 18.00	19.20 to 27.00		
	OUTPUT VOLTAGE SET		3.30 to 3.40	5.00 to 5.15	12.00 to 12.48	15.00 to 15.60	24.00 to 24.96		
ROTECTION	OVERCURRENT PROT			ating and recovers auto	matically				
ROTECTION	OVERVOLTAGE PROTEC		4.00 to 5.25	5.75 to 7.00	15.00 to 18.00	20.00 to 25.00	30.00 to 37.00		
THERS	OPERATING INDICA	TION	LED (Green)						
	REMOTE ON/OFF		Optional (Required ex						
	INPUT-OUTPUT-RC	*3			C500V 50MΩ min (At				
SOLATION	INPUT-FG	-		· · · · · · · · · · · · · · · · · · ·	C500V 50MΩ min (At				
	OUTPUT-RC-FG	*3			500V 50MΩ min (At R				
	OPERATING TEMP., HUMID. AND		,		, 3,000m (10,000feet) n				
NVIRONMENT	STORAGE TEMP., HUMID. AND	ALTITUDE			, 9,000m (30,000feet) n				
-	VIBRATION		, ,	,, <u> </u>	Ominutes each along X	, Y and Z axis			
	IMPACT		. ,,	s, once each X, Y and					
AFETY AND	AGENCY APPROVAL		, ,	A-C22.2 No.601.1), EN					
OISE	CONDUCTED NOISE		_ '	·	CISPR22-B, EN55011-	B, EN55022-B			
EGULATIONS	HARMONIC ATTENU		Complies with IEC610			/ 111	`		
OTHERS	CASE SIZE/WEIGHT	-	•	5×3.23×5.31 inches]	(W×H×D) / 350g max	(with cover : 395g max	()		
	COOLING METHOD		Convection						

- *1 Measured by 20MHz oscilloscope or Ripple-Noise meter (equivalent to KEISOKU-GIKEN: RM101).
- *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.
- Applicable when Remote ON/OFF (optional) is added. RC is insulated with input, output and FG.
- Derating is required.
- Please contact us about safety approvals for the model with option.

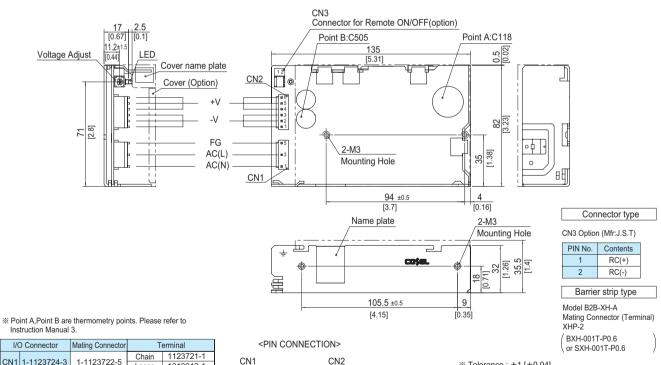
- *6 Please contact us about class C.
- Parallel operation with other model is not possible.
- Derating is required when operated with cover
- A sound may occur from power supply at peak loading.





External view

* External size of option T,T1,R and N is different from standard model and refer to 4 Option of instruction manual for details.



1	O Connector	Mating Connector	Terminal			
ONL	1 1-1123724-3	1-1123722-5	Chain	1123721-1		
CIN	1 1-1123724-3	1-1123722-5	Loose	1318912-1		
ONI	2 1-1123723-6	4 4400700 0	Chain	1123721-1		
CN2	2 1-1123723-6	1-1123722-6	Loose	1318912-1		

(Mfr : Tyco Electronics AMP)

- * I/O Connector is Mfr.Tyco Electronics AMP
- Option : -J1 : (J.S.T) connector type
 -T : Vertical terminal block type
- -T1 : Horizontal terminal block type Refer to Instruction Manual 4.

Pin No.	Input
1	AC(N)
2	
3	AC(L)
4	
5	FG

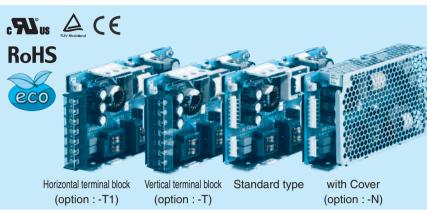
Pin No.	Output
1 - 3	-V
4 - 6	+V

- ※ Tolerance: ±1 [±0.04]
- Weight: 350g max (with cover: 395g max)
- ※ PCB Material/thickness: CEM-3 / 1.6mm [0.06inches]
- ※ Chassis material : Aluminum

- ※ Dimensions in mm, []=inches
 ※ Mounting torque : 0.49N ⋅ m (5kgf ⋅ cm) max
- $\ensuremath{\ensuremath{\mathbb{W}}}$ Please connect safety ground to the unit in 2-M3 holes.

PMA100F

100 **PM**



Example recommended EMI/EMC filter NAM-06-000

Low leakage current type : NAM series

*A higher current rating EMI/EMC filter may be recommended in view of the other devices that could be connected

in parallel with the power supply.

Series name
 Single output
 Output wattage

4)Universal input

⑤Output voltage

Optional *5
 T : Vertical terminal block
 T1: Horizontal terminal block

N: with Cover

J1: VH(J.S.T.)connector type R: with Remote ON/OFF

Specification is changed at option, refer to Instruction Manual.

*Make sure necessary tests will be carried out on your end equipment with the power supply installed in accordance with any required EMC/EMI regulations.

MODEL	PMA100F-3R3	PMA100F-5	PMA100F-12	PMA100F-24	PMA100F-48
MAX OUTPUT WATTAGE[W]	66	100	102	108	100.8
DC OUTPUT	3.3V 20A	5V 20A	12V 8.5A	24V 4.5A	48V 2.1A

SPECIFICATIONS

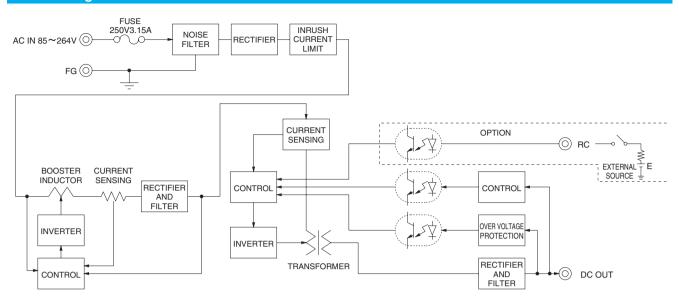
	MODEL		PMA100F-3R3	PMA100F-5	PMA100F-12	PMA100F-24	PMA100F-48
	VOLTAGE[V]		AC85 - 264 1 φ (Refer to the Instruction Manual 1.1)				
	OUDDENTIAL	ACIN 100V	0.9typ (lo=100%) 1.3typ (lo=100%)				
	CURRENT[A]	ACIN 200V	0.5typ (lo=100%)	0.7typ (lo=100%)			
	FREQUENCY[Hz]		50 / 60 (47 - 63)				
	EFFICIENCY[%]	ACIN 100V	77typ	81typ	82typ	84typ	84typ
INPUT	EFFICIENCI[/6]	ACIN 200V	78typ	83typ	83typ	86typ	86typ
	POWER FACTOR	ACIN 100V	0.98typ				
	(lo=100%)	ACIN 200V	0.85typ 0.90typ				
	INRUSH CURRENT[A]	ACIN 100V	20typ (lo=100%) (At cold start)				
	INNOSTI CONNENT[A]	ACIN 200V	40typ (lo=100%) (At cold start)				
	LEAKAGE CURREN	T[mA]	<u> </u>	100V / 240V 60Hz, lo-			v
	VOLTAGE[V]		3.3	5	12	24	48
	CURRENT[A]		20.0	20.0	8.5	4.5	2.1
	LINE REGULATION[20max	20max	48max	96max	192max
	LOAD REGULATION		40max	40max	100max	150max	240max
	RIPPLE[mVp-p]		80max	80max	120max	120max	150max
	*1	-10 - 0℃	140max	140max	160max	160max	200max
	RIPPLE NOISE[mVp-p]		120max	120max	150max	150max	250max
DUTPUT	*1		160max	160max	180max	180max	300max
	TEMPERATURE REGULATION[mV]			50max	120max	240max	480max
		-10 to +50℃	60max	60max	150max	290max	600max
	DRIFT[mV] *2		20max	20max	48max	96max	192max
	START-UP TIME[ms]		250typ (ACIN 100V, Io=100%)				
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%)				
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		2.85 to 3.60	4.50 to 5.50	10.00 to 13.20	19.20 to 27.00	39.00 to 53.00
	OUTPUT VOLTAGE SETTING[V]		3.30 to 3.40	5.00 to 5.15	12.00 to 12.48	24.00 to 24.96	48.00 to 49.92
PROTECTION	OVERCURRENT PROT		Works over 105% of rating and recovers automatically				
CIRCUIT AND	OVERVOLTAGE PROTECTION[V]		4.00 to 5.25	5.75 to 7.00	15.00 to 18.00	30.00 to 37.00	58.00 to 65.00
OTHERS	OPERATING INDICATION		LED (Green)				
	REMOTE ON/OFF		Optional (Required external power source)				
	INPUT-OUTPUT-RC *3		The income interest and in the interest and				
SOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)				
			AC500V 1minute, Cutoff current = 25mA, DC500V 50M Ω min (At Room Temperature)				
ENVIRONMENT	OPERATING TEMP., HUMID. AND		-10 to +70°C, 20 - 90%RH (Non condensing), 3,000m (10,000feet) max *4				
	-		-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max				
	VIBRATION		10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis				
	IMPACT	196.1m/s² (20G), 11ms, once each X, Y and Z axis					
SAFETY AND	AGENCY APPROVAL		UL60601-1, C-UL (CSA-C22.2 No.601.1), EN60601-1				
NOISE REGULATIONS	CONDUCTED NOISE		Complies with FCC-B, VCCI-B, CISPR11-B, CISPR22-B, EN55011-B, EN55022-B				
NEGULATIONS	TIPATIMOTHIO PATTERIO		Complies with IEC61000-3-2 *6 34×93×168mm [1.34×3.66×6.61 inches] (W×H×D) / 560q max (with cover : 625q max)				
OTHERS	CASE SIZE/WEIGHT			1 × 3.66 × 6.61 inches] (vv × H × D) / 560g max	(with cover : 625g max)
	COOLING METHOD		Convection				

- *1 Measured by 20MHz oscilloscope or Ripple-Noise meter (equivalent to KEISOKU-GIKEN: RM101).
 *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.
- Applicable when Remote ON/OFF (optional) is added. RC is insulated with input, output and FG.
- Derating is required.

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

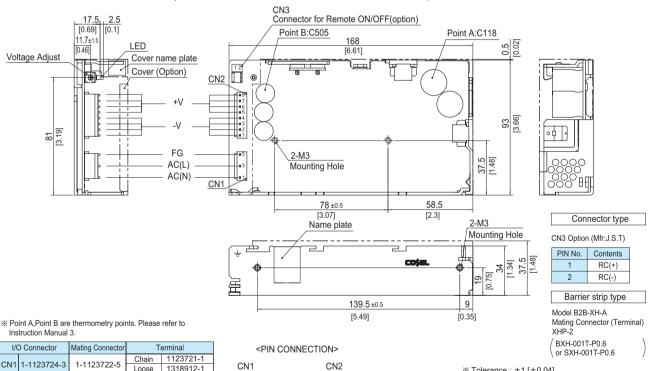
- Please contact us about class C.
- Parallel operation with other model is not possible.
- Derating is required when operated with cover
- A sound may occur from power supply at peak loading.





External view

** External size of option T,T1,R and N is different from standard model and refer to 4 Option of instruction manual for detalis.



I/O Connector		Mating Connector	Terminal	
CN1 1-1123724-3		1-1123722-5	Chain	1123721-1
CNT	N1 1-1123724-3	1-1123722-5	Loose	1318912-1
0110	4 4400700 0	1-1123722-8	Chain	1123721-1
CN2 1-1123723-8	1-1123722-8	Loose	1318912-1	

(Mfr : Tyco Electronics AMP)

- ※ I/O Connector is Mfr.Tyco Electronics AMP
- Option : -J1 : (J.S.T) connector type
 -T : Vertical terminal block type

-T1 : Horizontal terminal block type Refer to Instruction Manual 4.

Pin No.	Input
1	AC(N)
2	
3	AC(L)

FG

	CINZ			
	Pin No.	Output		
)	1 - 4	-V		
)	5 - 8	+V		

- ※ Tolerance: ±1 [±0.04]
- Weight: 560g max (with cover: 625g max)
- % PCB Material/thickness : CEM-3 / 1.6mm [0.06inches]
- Chassis material: Aluminum
- ※ Keep drawing current per pin bellow 5A of CN2.
- * Dimensions in mm, []=inches
- ※ Mounting torque: 0.49N ⋅ m (5kgf ⋅ cm) max
- * Please connect safety ground to the unit in 2-M3 holes.

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