Ordering information

PMA15F

A 15 F 5

c Sus 🛕 (E **RoHS** eco Vertical terminal block Standard type with Cover Horizontal terminal block (option:-T) (option:-N) (option:-T1)

Recommended EMI/EMC Filter NAM-04-000

Low leakage current type : NAM series *The EMI/EMC Filter is recommended to connect with several devices.

- 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.

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

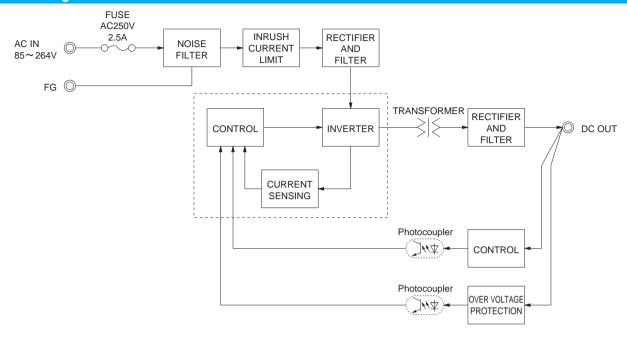
	MODEL		PMA15F-3R3	PMA15F-5	PMA15F-12	PMA15F-15	PMA15F-24		
	VOLTAGE[V]		AC85 - 264 1 φ (Refer to the Instruction Manual 1.1 and 3.2) *3						
	OUDDENITAL	ACIN 100V	0.30typ (lo=100%)						
	CURRENT[A]	ACIN 200V	0.15typ (lo=100%)						
	FREQUENCY[Hz]		50 / 60 (47 - 440)	, , , , ,					
NPUT		ACIN 100V	66typ	70typ	74typ	76typ	76typ		
	EFFICIENCY[%]	ACIN 200V	67typ	74typ	78typ	79typ	79typ		
		ACIN 100V	15typ (Io=100%) (At o	cold start)		1			
	INRUSH CURRENT[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		
ļ	LOAD REGULATION	[mV]	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		
UTPUT	*1	-10 - 0℃	160max	160max	180max	180max	180max		
	TEMPERATURE REGULATION[mV]	0 to +50°C	50max	50max	120max	150max	240max		
		-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 volta						
	HOLD-UP TIME[ms]		20typ (ACIN 100V, lo=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		
	OVERCURRENT PROT	ECTION	Works over 105% of r	rating and recovers aut	omatically				
ROTECTION	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		
RCUIT AND HERS	OPERATING INDICA	TION	LED (Green)						
	REMOTE ON/OFF		Not provided						
	INPUT-OUTPUT		AC4,000V 1minute, C	Cutoff current = 10mA, I	DC500V 50M Ω min (A	t Room Temperature)			
OLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)						
	OUTPUT-FG		AC500V 1minute, Cutoff current = 25mA, DC500V 50MΩ min (At Room Temperature)						
	OPERATING TEMP., HUMID. AND	ALTITUDE	-10 to +70°C, 20 - 90%RH (Non condensing), 3,000m (10,000 feet) max *3						
IVIDONMENT	STORAGE TEMP., HUMID. AND	ALTITUDE	-20 to +75°C, 20 - 90°	%RH (Non condensing), 9,000m (30,000 feet)	max			
IVIRONMENT	VIBRATION		10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis						
	IMPACT		196.1m/s² (20G), 11m	ns, once each X, Y and	Z axis				
AFETY AND	AGENCY APPROVAL	LS	UL60601-1, C-UL (CS	SA-C22.2 No.601.1), E	N60601-1				
-	CONDUCTED NOISE	:	Complies with FCC-B	, VCCI-B, CISPR11-B,	CISPR22-B, EN55011	-B, EN55022-B			
EGULATIONS	HARMONIC ATTENU	JATOR	Complies with IEC610	000-3-2 (Class A) *6 (N	ot built-in to active filter	*4)			
THERE	CASE SIZE/WEIGHT		31×78×103mm [1.2	2×3.07×4.06 inches]	(W×H×D) / 230g ma	x (with cover : 265g m	ax)		
THERS	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.

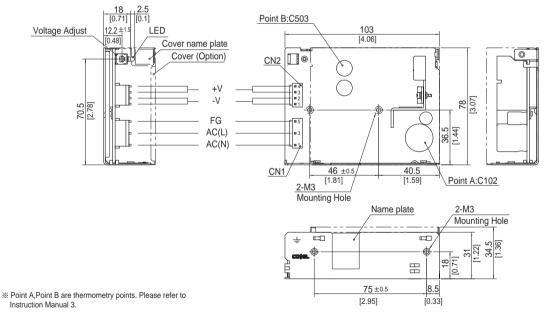
PMA15F | COSEL

Block diagram



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		Mating Connector	T	erminal
014	1-1123724-3	1-1123722-5	Chain	1123721-1
CIVI	1-1123724-3	1-1123722-5	Loose	1318912-1
ONIO	4 4400700 4	1-1123722-4	Chain	1123721-1
CNZ	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	- •
3	AC(L)	3, 4	+V
4		3, 4	Τ ν
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

A 30 F 5

c Sus 🛕 (E **RoHS** eco Horizontal terminal block Vertical terminal block Standard type with Cover (option:-T) (option:-N) (option:-T1)

Recommended EMI/EMC Filter NAM-04-000

Low leakage current type : NAM series *The EMI/EMC Filter is recommended to connect with several devices.

- 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.

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

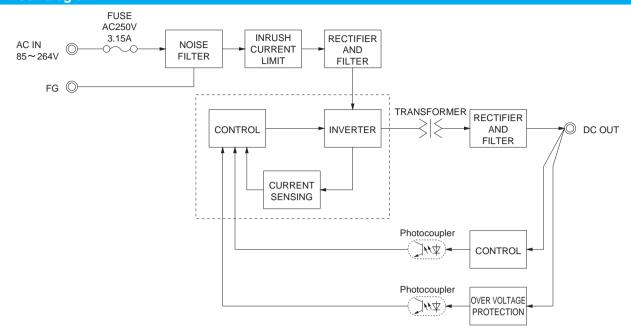
	MODEL		PMA30F-3R3	PMA30F-5	PMA30F-12	PMA30F-15	PMA30F-24	
	VOLTAGE[V]		AC85 - 264 1 φ (Refer to the Instruction Manual 1.1 and 3.2) *3					
	OUDDENITAL	ACIN 100V	0.50typ (lo=100%)					
	CURRENT[A]	ACIN 200V	0.30typ (lo=100%)					
	FREQUENCY[Hz]		50 / 60 (47 - 440)					
NPUT	EEEIOJENOV(9/1	ACIN 100V	67typ	71typ	76typ	77typ	77typ	
	EFFICIENCY[%]	ACIN 200V	69typ	74typ	78typ	80typ	80typ	
	INDUOLI OUDDENITA	ACIN 100V	15typ (Io=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	100V / 240V 60Hz, lo	=100%, According to IE	EC60601-1)		
	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	I[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	
UTPUT	*1	-10 - 0℃	160max	160max	180max	180max	180max	
	TEMPERATURE REGULATION[mV]	0 to +50℃	50max	50max	120max	150max	240max	
		-10 to +50℃	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, lo=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	
	OVERCURRENT PROT	ECTION	Works over 105% of r	ating and recovers auto	omatically		•	
ROTECTION	OVERVOLTAGE PROTE	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	
IRCUIT AND	OPERATING INDICA	TION	LED (Green)					
THERE	REMOTE ON/OFF		Not provided					
	INPUT-OUTPUT		AC4,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)					
SOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)					
	OUTPUT-FG		AC500V 1minute, Cutoff current = 25mA, DC500V 50MΩ min (At Room Temperature)					
	OPERATING TEMP., HUMID. ANI	D ALTITUDE	-10 to +70°C, 20 - 90%RH (Non condensing), 3,000m (10,000feet) max *3					
NVIRONMENT	STORAGE TEMP., HUMID. AND	ALTITUDE	-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max					
INVIRONIVIENT	VIBRATION		10 - 55Hz, 19.6m/s² (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					
SAFETY AND	AGENCY APPROVA	LS	UL60601-1, C-UL (CS	SA-C22.2 No.601.1), Ef	N60601-1			
IOISE	CONDUCTED NOISE	Ε	Complies with FCC-B	, VCCI-B, CISPR11-B,	CISPR22-B, EN55011-	B, EN55022-B		
REGULATIONS	HARMONIC ATTENU	JATOR	Complies with IEC610	000-3-2 (Class A) *6 (No	ot built-in to active filter	*4)		
OTHERS	CASE SIZE/WEIGHT		31×82×120mm [1.2	2×3.23×4.72 inches]	(W×H×D) / 240g max	(with cover : 280g ma	x)	
OTHERS	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.

PMA

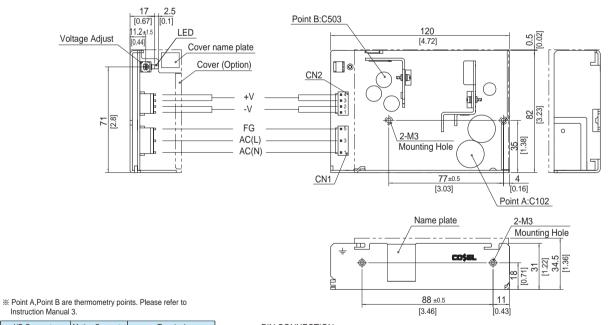
PMA30F | COSEL

Block diagram



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.



I/O Connector Mating Connecto Chain 1123721-1 CN1 1-1123724-3 1-1123722-5

Loose 1318912-1 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>CONNEC</th><th>CION></th></pin>	CONNEC	CION>
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		CINZ
Pin No.	Input	Pin I
1	AC(N)	4
2		١,
3	AC(L)	2
4		3,
5	FG	

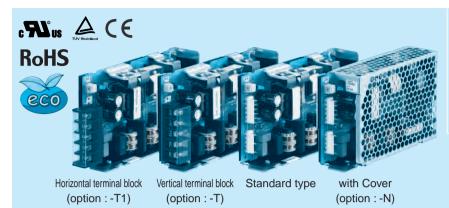
- No. Output 2 -V
- 4 +V
- ※ Tolerance: ±1 [±0.04]
- Weight: 240g max (with cover: 280g max)
- PCB Material/thickness: CEM-3 / 1.6mm [0.06inches]
- Chassis material: Aluminum
- Keep drawing current per pin bellow 5A of CN2.
 Dimensions in mm, []=inches
- Mounting torque : 0.49N ⋅ m (5kgf ⋅ cm) max
- * Please connect safety ground to the unit in 2-M3 holes.



Ordering information

PMA60F

60



Recommended EMI/EMC Filter NAM-04-000

Low leakage current type : NAM series *The EMI/EMC Filter is recommended to connect with several devices.

- 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.

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

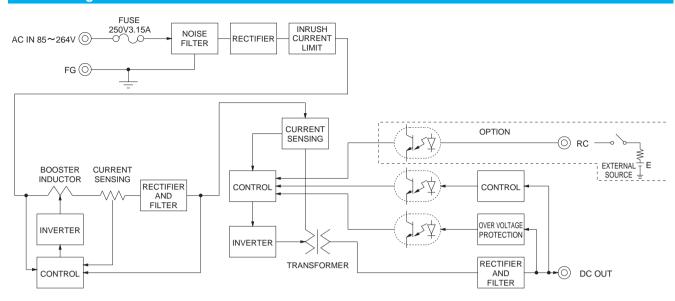
	MODEL		PMA60F-3R3	PMA60F-5	PMA60F-12	PMA60F-15	PMA60F-24			
	VOLTAGE[V]		AC85 - 264 1 φ (Refe	r to the Instruction Man	ual 1.1)					
	CURRENT[A]	ACIN 100V	0.7typ (lo=100%)	0.8typ (lo=100%)						
	CORKENI[A]	ACIN 200V	0.4typ (lo=100%)	0.5typ (lo=100%)						
	FREQUENCY[Hz]		50 / 60 (47 - 63)							
	EFFICIENCY[0/]	ACIN 100V	77typ	80typ	80typ	81typ	81typ			
INPUT	EFFICIENCY[%]	ACIN 200V	78typ	83typ	82typ	83typ	83typ			
	POWER FACTOR	ACIN 100V	0.98typ	.98typ						
	(lo=100%)	ACIN 200V	0.85typ	0.90typ						
	INRUSH CURRENT[A]	ACIN 100V	15typ (lo=100%) (At c	old start)						
	INITOOTI CONNENT[A]	ACIN 200V	30typ (Io=100%) (At c							
	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		40max	40max	100max	120max	150max			
	RIPPLE[mVp-p]		80max	80max	120max	120max	120max			
	*1	-10 - 0℃	140max	140max	160max	160max	160max			
	RIPPLE NOISE[mVp-p]		120max	120max	150max	150max	150max			
OUTPUT	*1		160max	160max	180max	180max	180max			
	TEMPERATURE REGULATION[mV]		50max	50max	120max	150max	240max			
		-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=100%)							
	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		T	1			
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		Optional (Required external power source)							
	INPUT-OUTPUT-RC	*3		utoff current = 10mA, D						
ISOLATION	INPUT-FG		, ,	utoff current = 10mA, D	,	1 /				
	OUTPUT-RC-FG	*3	7.0000 Timilato, Caton Carronic Zonia, 20000 Conia- Timir (7.1.100m Tomporataro)							
	OPERATING TEMP., HUMID. AND		-10 to +70°C, 20 - 90%RH (Non condensing), 3,000m (10,000feet) max *4							
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALIIIUDE	-20 to +75°C, 20 - 90%RH (Non condensing), 9,000m (30,000feet) max 10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis							
	VIBRATION		, ,			, Y and ∠ axis				
	IMPACT		196.1m/s² (20G), 11ms, once each X, Y and Z axis UL60601-1, C-UL (CSA-C22.2 No.601.1), EN60601-1							
SAFETY AND	AGENCY APPROVAL					D ENERGOOD				
NOISE REGULATIONS	CONDUCTED NOISE			VCCI-B, CISPR11-B,	CISPR22-B, EN55011-	B, EN55022-B				
NEGULATIONS	TIARMONIO ATTENO		Complies with IEC610		(MVIIVD) / 050	(ith	A .			
OTHERS	CASE SIZE/WEIGHT		•	5 × 3.23 × 5.31 inches]	(VV × 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.

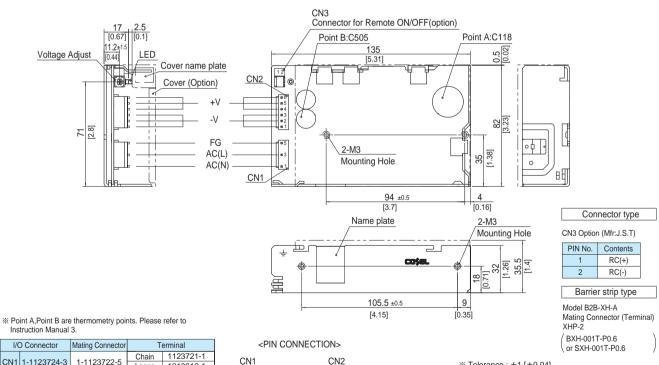
PMA60F | COSEL

Block diagram



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.



Instruction Manual 3.

I/O Connector		Mating Connector	T	erminal
014	1-1123724-3	1-1123722-5	Chain	1123721-1
CNT	1-1123724-3	1-1123722-5	Loose	1318912-1
0110	4 4400700 0	1-1123722-6	Chain	1123721-1
CNZ	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.

Input
AC(N)
AC(L)
FG

- Pin No. Output 1 - 3 -V 4 - 6
- ※ Tolerance: ±1 [±0.04]
- Weight: 350g max (with cover: 395g max)
- ※ PCB Material/thickness : CEM-3 / 1.6mm [0.06inches]
- Chassis material: Aluminum
- % Keep drawing current per pin bellow 5A of CN2.
- \times Dimensions in mm, []=inches
- ※ Mounting torque: 0.49N ⋅ m (5kgf ⋅ cm) max
- ** Please connect safety ground to the unit in 2-M3 holes.

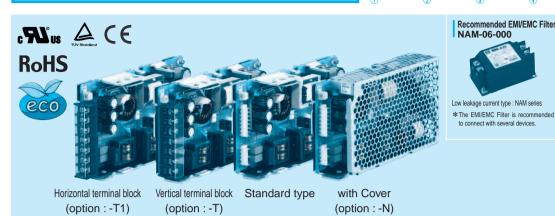
PMA

PMA100F

Ordering information

A 100 F s





Recommended EMI/EMC Filter NAM-06-000

to connect with several devices.

- 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.

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)					
INPUT	CUDDENTIAL	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	
		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 (Io=100%) (At cold start)					
	INKOSTI COKKLNI[A]	ACIN 200V						
	LEAKAGE CURRENT[mA]		0.09 / 0.18max (ACIN 100V / 240V 60Hz, lo=100%, According to IEC60601-1)					
	VOLTAGE[V]		3.3	5	12	24	48	
	CURRENT[A]		20.0	20.0	8.5	4.5	2.1	
	LINE REGULATION[mV]		20max	20max	48max	96max	192max	
	LOAD REGULATION		40max	40max	100max	150max	240max	
	RIPPLE[mVp-p]	0 to +50℃		80max	120max	120max	150max	
	*1	-10 - 0℃	140max	140max	160max	160max	200max	
ОИТРИТ	RIPPLE NOISE[mVp-p]	0 to +50℃		120max	150max	150max	250max	
		-10 - 0℃	160max	160max	180max	180max	300max	
	TEMPERATURE REGULATION[mV]	0 to +50℃		50max	120max	240max	480max	
	TEMI ENATONE NEODEMION[IIV]	-10 to +50°C	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		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 SET		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	
ROTECTION	OVERCURRENT PROT		Works over 105% of rating and recovers automatically					
CIRCUIT AND	OVERVOLTAGE PROTE		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	
THERS			LED (Green)					
			Optional (Required external power source)					
ISOLATION	INPUT-OUTPUT-RC	*3	AC4,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)					
	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)					
	OUTPUT-RC-FG	*3	7.10000 Timilate, Gaten Garrett Zenin, 20000 Tenin (Fit Teom Teniperature)					
	OPERATING TEMP., HUMID. AND		3), 4,444					
NVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE						
	VIBRATION		, ,	G), 3minutes period, 60minutes each along X, Y and Z axis				
	IMPACT		, ,,	s, once each X, Y and				
SAFETY AND	AGENCY APPROVAL		UL60601-1, C-UL (CSA-C22.2 No.601.1), EN60601-1					
IOISE REGULATIONS	CONDUCTED NOISE		Complies with FCC-B, VCCI-B, CISPR11-B, CISPR22-B, EN55011-B, EN55022-B					
	HARMONIC ATTENUATOR Complies with IEC61			000-3-2 *6 34×3.66×6.61 inches] (W×H×D) / 560g max (with cover : 625g max)				
OTHERS	CASE SIZE/WEIGHT			4 × 3.66 × 6.61 inches]	(W X H X D) / 560g max	(with cover : 625g max	()	
	COOLING METHOD		Convection					

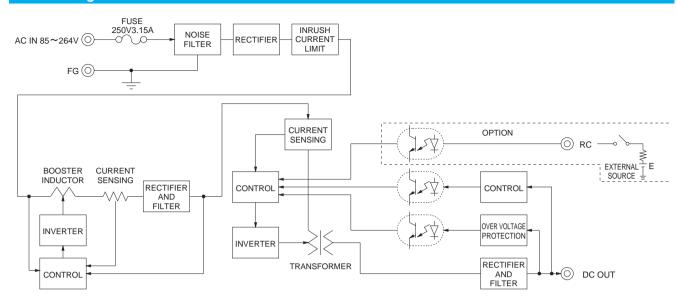
- *1 Measured by 20MHz oscilloscope or Ripple-Noise meter (equivalent to KEISOKU-GIKEN: RM101).
 *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.
- Applicable when Remote ON/OFF (optional) is added. RC is insulated with input, output and FG.
- Derating is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

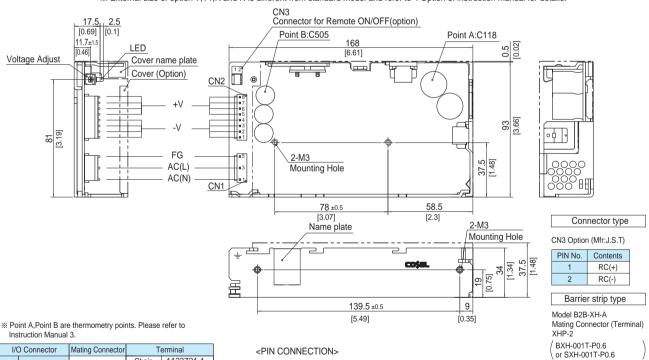
PMA100F | COSEL

Block diagram



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.



I/O Connector		Mating Connector	Terminal	
CN1 1-1123724-3	1-1123722-5	Chain	1123721-1	
	1-1123724-3	1-1123722-5	Loose	1318912-1
ONIO	CN2 1-1123723-8	1-1123722-8	Chain	1123721-1
CN2			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:<="" th=""></pin>

CN1		(
Pin No.	Input	
1	AC(N)	
2		
3	AC(L)	
4		
5	FG	_

- CN2 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.

PMA