CD\$EL AC-DC Power Supplies Medical type					Ordering information				
	PN	I A1	1 5F		PM 2	A <u>15</u> F	- <u></u>		
c AL us RoHS						Recommended EMI/EMC Filter NAM-04-000 Weakage current type : NAM series Ar 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 8) Optional *5 T : Vertical terminal b N: with Cover J1: VH(J.S.T.)connector t		
	Optional -T1	Optional -T	l Normal	Optional -N			Specification is changed a option, refer to Instructio Manual.		
MODEL			PMA15F-3R3	PMA15F-5	PMA15F-12	2 PMA15F-15	PMA15F-24		
MAX OUTPL	UT WATTAGE[W]		9.9	15	15.6	15	16.8		
DC OUTPUT	ſ		3.3V 3A	5V 3A	12V 1.3A	15V 1A	24V 0.7A		
SPECIF	ICATIONS								
	MODEL		PMA15F-3R3	PMA15F-5	PMA15F-12	2 PMA15F-15	PMA15F-24		
	VOLTAGE[V]		AC85 - 264 1 ¢ (Ref						
	CURRENT[A] ACIN 100V ACIN 200V		0.30typ (lo=100%)	0.30typ (lo=100%) 0.40typ (lo=100%)					
			0.15typ (lo=100%) 0.20typ (lo=100%)						
	FREQUENCY[Hz]		50 / 60 (47 - 440)	1					
INPUT	EFFICIENCY[%]	ACIN 100V	66typ	70typ	74typ	76typ	76typ		
		ACIN 200V	67typ	74typ	78typ	79typ	79typ		
	INRUSH CURRENT[A]		15typ (lo=100%) (At cold start) 30typ (lo=100%) (At cold start)						
			0.05/0.10max (ACIN 100V / 240V 60Hz, Io=100%, According to IEC60601-1)						
	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	l[mV]	40max	40max	100max	120max	150max		
	RIPPLE[mVp-p]	0 to +50℃		80max	120max	120max	120max		
	*1	-10 - 0°C		140max	160max	160max	160max		
OUTDUT	RIPPLE NOISE[mVp-p]		120max	120max	150max	150max	150max		
OUTPUT	*	-10 - 0℃	160max 50max	160max 50max	180max 120max	180max 150max	180max 240max		
	TEMPERATURE REGULATION[mV]	-10 to +50℃		60max	150max	180max	290max		
	DRIFT[mV]		20max	20max	48max	60max	96max		
	START-UP TIME[ms]					nan 1minute of applying input agai			
	HOLD-UP TIME[ms]		20typ (ACIN 100V, I	/					
	OUTPUT VOLTAGE ADJUSTMEN		2.85 to 3.60	4.50 to 5.50	10.00 to 13				
	OUTPUT VOLTAGE SET		3.30 to 3.40	5.00 to 5.15	12.00 to 12		24.00 to 24.96		
PROTECTION	OVERCURRENT PROT		Works over 105% of			, 	00.00 +- 07.00		
CIRCUIT AND	OVERVOLTAGE PROTE		4.00 to 5.25 LED (Green)	5.75 to 7.00	15.00 to 18	8.00 20.00 to 25.00	30.00 to 37.00		
OTHERS	OPERATING INDICA REMOTE ON/OFF		Not provided						
	INPUT-OUTPUT			Cutoff current =	10mA, DC500V 5	0MΩ min (At Room Temp	perature)		
ISOLATION	INPUT-FG					$0M\Omega$ min (At Room Temp	,		
	OUTPUT-FG					M Ω min (At Room Tempe	,		
	OPERATING TEMP., HUMID.AN	D ALTITUDE			• / · · ·	(10,000 feet) max *3			
ENVIRONMENT	STORAGE TEMP., HUMID.AND	ALTITUDE	-20 to +75℃, 20 - 9						
	VIBRATION			V 7:		s each along X, Y and Z ax	kis		
	IMPACT		196.1m/s ² (20G), 11						
SAFETY AND	AGENCY APPROVA		UL60601-1, C-UL (C		1.		2		
NOISE REGULATIONS	CONDUCTED NOIS					B, EN55011-B, EN55022-E	5		
						wer)			
OTHERS	CASE SIZE/WEIGHT		·	.22~3.01~4.00		D / 2309 max (without Ct			
UTHENS	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.

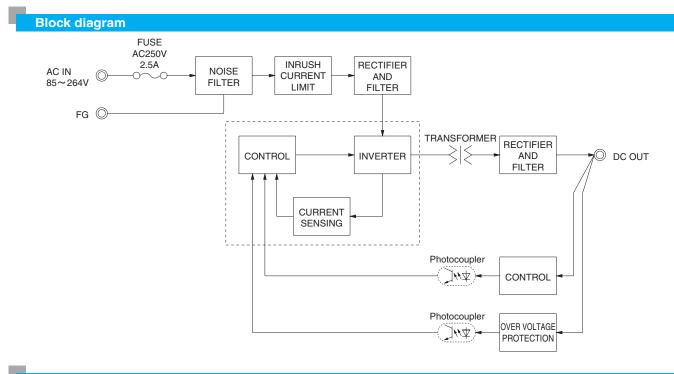
*5 Please contact us about safety approvals for the model with option.
*6 Please contact us about another class.

* * *

Please contact us about safety approvals for the model 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.

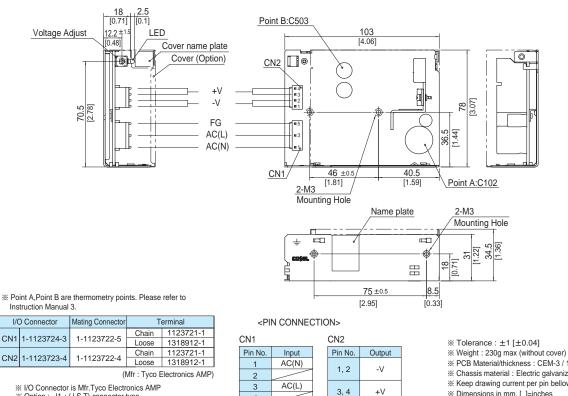
PM





External view





4

5

FG

- Option : -J1 : (J.S.T) connector type
 -T : Vertical terminal block type
- -T1 : Horizontal terminal block type Refer to Instruction Manual 4.

- * PCB Material/thickness : CEM-3 / 1.6mm [0.06inches]
- * Chassis material : Electric galvanizing steel board
- % Keep drawing current per pin bellow 5A of CN2.
- % Dimensions in mm, []=inches
- % Mounting torque : 0.6N \cdot m (6.3kgf \cdot cm) max
- % Please connect safety ground to the unit in 2-M3 holes.

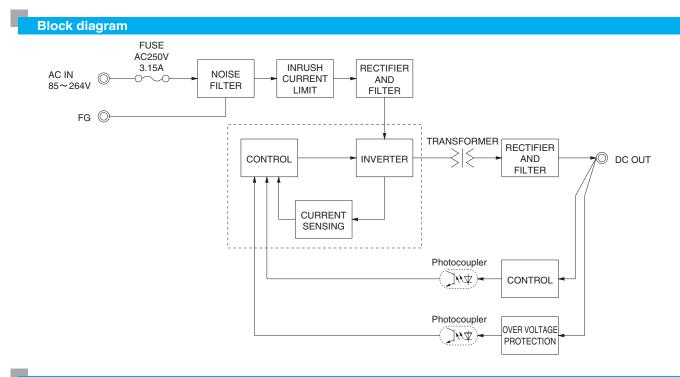
PMA

COSEL		upplies Medica	l type	Ordering information					
	PN	IA :	BOF		PM	A	30 F	• <u>•</u> <u>6</u>	
c AL US RoHS		the stars				Low leakage *The EMI/	nended EMI/EMC Filter 04-000 Current type : NAM series EMC Filter is recommended at with several devices.	 (1) Series name (2) Single output (3) Output wattage (4) Universal input (5) Output voltage (6) Optional *5 T : Vertical termin T1: Horizontal termin T1: Horizontal termin N: with Cover J1: VH(J.S.T.) connection 	
	Optional -T1	Optiona -T	l Normal	Optional -N				Specification is cha option, refer to Inst Manual.	
MODEL			PMA30F-3R3	PMA30F-5	PMA30F	-12	PMA30F-15	PMA30F-24	
-	UT WATTAGE[W]		19.8	30	30		30	31.2	
DC OUTPUT	Г		3.3V 6A	5V 6A	12V 2.5	4	15V 2A	24V 1.3A	
SPECIF	ICATIONS								
	MODEL		PMA30F-3R3	PMA30F-5	PMA30F	-12	PMA30F-15	PMA30F-24	
	VOLTAGE[V]		AC85 - 264 1 ¢ (Ref	er to the Instructi	on Manual 1.1	l and 3.2) 🕴	k3		
	CURRENT[A]	ACIN 100V	0.50typ (lo=100%)	0.70typ (lo=100	· · · · ·				
	ACIN 200V		0.30typ (lo=100%)	0.40typ (lo=100	%)				
INPUT	FREQUENCY[Hz]		50 / 60 (47 - 440) 67typ	71typ	76typ		77typ	77typ	
	EFFICIENCY[%]	ACIN 200V		74typ	78typ		80typ	80typ	
		ACIN 100V	15typ (lo=100%) (At		· J1				
	INRUSH CURRENT[A]	ACIN 200V	30typ (Io=100%) (At						
	LEAKAGE CURREN	T[mA]	0.05 / 0.10max (ACI			, According			
	VOLTAGE[V]		3.3 6.0	5	12 2.5		15 2.0	24	
	CURRENT[A]	mV1	20max	6.0 20max	2.5 48max		60max	1.3 96max	
	LOAD REGULATION	-	40max	40max	100max		120max	150max	
	RIPPLE[mVp-p]	<u> </u>	80max	80max	120max		120max	120max	
	*1	-10 - 0°C	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 60max	50max 60max	120max 150max		150max 180max	240max 290max	
	DRIFT[mV]	*2	20max	20max	48max		60max	96max	
	START-UP TIME[ms]		200typ (ACIN 100V, Io=100			s than 1minute			
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Id	p=100%)					
	OUTPUT VOLTAGE ADJUSTMENT		2.85 to 3.60	4.50 to 5.50	10.00 to		13.20 to 18.00		
	OUTPUT VOLTAGE SET OVERCURRENT PROT		3.30 to 3.40 Works over 105% of	5.00 to 5.15	12.00 to		15.00 to 15.60	24.00 to 24.	
PROTECTION CIRCUIT AND OTHERS	OVERVOLTAGE PROTE	CTION[V]	4.00 to 5.25 LED (Green)	5.75 to 7.00	15.00 to		20.00 to 25.00	30.00 to 37.	
	REMOTE ON/OFF		Not provided AC4,000V 1minute, 0	Cutoff ourroot - 1		/ 50M.0 mi	n (At Room Tom	oerature)	
ISOLATION	INPUT-FG		AC2,000V 1minute,				· ·	,	
	OUTPUT-FG		AC500V 1minute, CL				· ·	,	
	OPERATING TEMP., HUMID.ANI	O ALTITUDE	-10 to +70℃, 20 - 90		-		· ·	· · · · · · · · · · · · · · · · · · ·	
ENVIRONMENT	STORAGE TEMP., HUMID.AND	ALTITUDE	-20 to +75℃, 20 - 90						
	VIBRATION		10 - 55Hz, 19.6m/s ²			ites each al	ong X, Y and Z ax	kis	
			196.1m/s ² (20G), 11			-			
	AGENCY APPROVALS		UL60601-1, C-UL (CSA-C22.2 No.601.1), EN60601-1						
SAFETY AND			Complies with FCC-B, VCCI-B, CISPR11-B, CISPR22-B, EN55011-B, EN55022-B						
NOISE	CONDUCTED NOISE							5	
	CONDUCTED NOISE	e Jator	Complies with FCC-E Complies with IEC61 31×82×120mm [1.	000-3-2 (Class A)) *6 (Not built-	in to active	filter * 4)		

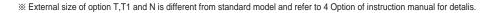
Measured by 20MHz oscilloscope or Ripple-Noise meter (equivalent to REISURU-GIKEN: RMT
 2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.
 3 Derating is required.
 *4 When two or more units are used, they may not comply with the harmonic attenuator. Please contact us for details.

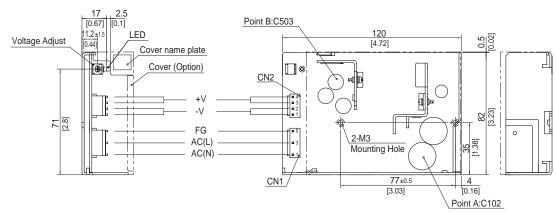
Please contact us about safety approvals for the model v
 Please contact us about another class.
 Parallel operation with other model is not possible.
 Derating is required when operated with cover.
 A sound may occur from power supply at peak loading.

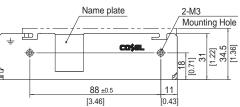




External view







% Point A,Point B are thermometry points. Please refer to Instruction Manual 3.

I/O Connector		Mating Connector	Terminal			
0.14	1-1123724-3	4 4400700 5	Chain	1123721-1		
CIN1	1-1123724-3	1-1123722-5	Loose	1318912-1		
010	1-1123723-4	1-1123722-4	Chain	1123721-1		
CINZ	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><th></th></pin<>	CONNECTION>	

CN1		CN2	
Pin No.	Input	Pin No.	Output
1	AC(N)	1, 2	-V
2		1, 2	- V
3	AC(L)	2.4	+V
4		3, 4	+v
5	FG		

% Tolerance : ±1 [±0.04]

% Weight : 240g max (without cover)

- % 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.

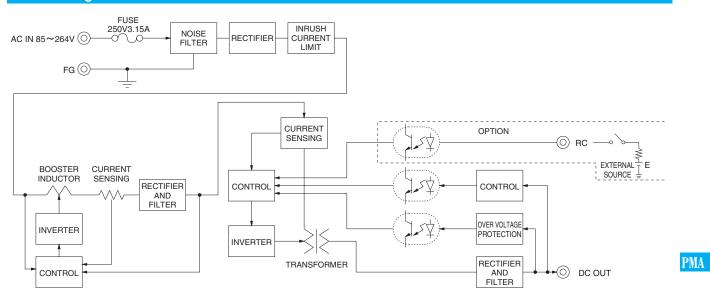
PMA

COŞEL	CO\$EL AC-DC Power Supplies Medical type						Ordering information			
	P	IA	50F		PM	Α	<u>60</u> F			
c AL us RoHS		A STATE OF STATE				Low leak	(a) (c) mmended EM/EMC Filter (x-04-000) (c) (c) (c) (c) (c) (c) (c) (c	 (1) Series name (2) Single output (3) Output wattage (4) Output voltage (5) Output voltage (6) Optional *5 T : Vertical termina T1: Horizontal termina N: with Cover J1: VH(J.S.T.)connect R: with Remote Ob 		
	Optional -T1	Optiona -T	I Normal	Optional -N				Specification is chang option, refer to Instru Manual.		
MODEL			PMA60F-3R3	PMA60F-5	PMA60F	-12	PMA60F-15	PMA60F-24		
MAX OUTPL	UT WATTAGE[W]		39.6	60	60		60	60		
DC OUTPUT			3.3V 12A	5V 12A	12V 5A		15V 4A	24V 2.5A		
SPECIF	ICATIONS									
	MODEL		PMA60F-3R3	PMA60F-5	PMA60F	-12	PMA60F-15	PMA60F-24		
	VOLTAGE[V]		AC85 - 264 1 ¢ (Ref	er to the Instructi	on Manual 1.1)	·			
	CURRENT[A]	ACIN 100V	0.7typ (lo=100%)	0.8typ (lo=100%	,					
	FREQUENCY[Hz]	ACIN 200V	0.4typ (lo=100%) 50 / 60 (47 - 63)	0.5typ (lo=100%	0)					
		ACIN 100V	77typ	80typ	80typ		81typ	81typ		
INPUT	EFFICIENCY[%]	ACIN 200V	78typ	83typ	82typ		83typ	83typ		
	POWER FACTOR	ACIN 100V	0.98typ				1			
	(lo=100%)	ACIN 200V	0.85typ	0.90typ						
	INRUSH CURRENT[A]	ACIN 100V	15typ (lo=100%) (At	,						
		ACIN 200V	30typ (lo=100%) (At cold start) 0.09 / 0.18max (ACIN 100V / 240V 60Hz, lo=100%, According to IEC60601-1)							
	LEAKAGE CURRENT[mA] VOLTAGE[V]		3.3	5	12	, Accordi	15	24		
	CURRENT[A]		12.0	12.0	5.0		4.0	2.5		
	LINE REGULATION	mV]	20max	20max	48max		60max	96max		
	LOAD REGULATION	<u> </u>	40max	40max	100max		120max	150max		
	RIPPLE[mVp-p]		80max	80max	120max		120max	120max		
			140max 120max	140max 120max	160max 150max		160max 150max	160max 150max		
OUTPUT	RIPPLE NOISE[mVp-p]		160max	160max	180max		180max	180max		
			50max	50max	120max		150max	240max		
	TEMPERATURE REGULATION[mV]	-10 to +50℃	60max	60max	150max		180max	290max		
	DRIFT[mV]	*2	20max	20max	48max		60max	96max		
	START-UP TIME[ms]	1	250typ (ACIN 100V, 20typ (ACIN 100V, Id	,						
	HOLD-UP TIME[ms] OUTPUT VOLTAGE ADJUSTMEN		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		15.00 to 15.60	24.00 to 24.96		
DEOTECTION	OVERCURRENT PRO	FECTION	Works over 105% of rating and recovers automatically							
PROTECTION CIRCUIT AND	OVERVOLTAGE PROTE		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) Optional (Required external power source)							
	REMOTE ON/OFF	*3			,	50MO 1	nin (At Room Temp	erature)		
ISOLATION	INPUT-FG		AC2,000V 1minute,				· · ·	,		
	OUTPUT·RC-FG	*3	AC500V 1minute, Cu	utoff current = 25	nA, DC500V 5	i0MΩ mi	n (At Room Temper	,		
	OPERATING TEMP., HUMID.AN		-10 to +70℃, 20 - 90		•,		,			
ENVIRONMENT	STORAGE TEMP., HUMID.AND	ALTITUDE	-20 to +75℃, 20 - 90	``	•,		,			
	VIBRATION		10 - 55Hz, 19.6m/s ²	<u>, ,, ,</u>		tes each	along X, Y and Z ax	S		
CALETY AND	IMPACT AGENCY APPROVA	IS	196.1m/s ² (20G), 11 UL60601-1, C-UL (C			-1				
SAFETY AND NOISE	CONDUCTED NOIS		Complies with FCC-E				5011-B, EN55022-B			
			Complies with IEC61			, _, 1100	D			
REGULATIONS	CASE SIZE/WEIGHT 32×82×135mm [1.26×3.23×5.31 inches] (W×H×D) / 350g max (without cover)									
OTHERS					nches] (W×H	×D) / 35	Og max (without co	ver)		

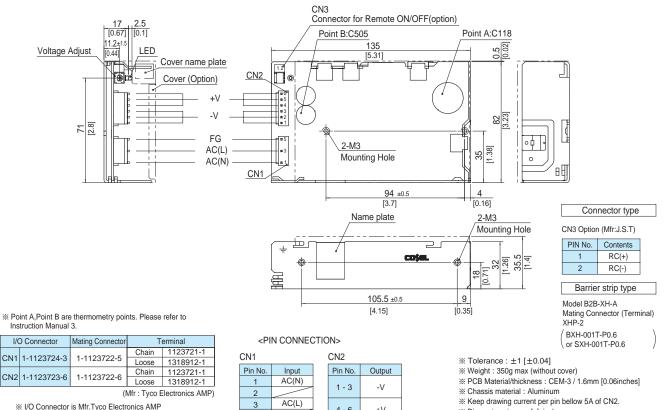
Measured by 20MH2 oscilloscope of Alphe-Noise meter (equivalent to KESOKU-alKER RMIO
 2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.
 3 Applicable when Remote 0N/OFF (optional) is added. RC is insulated with input, output and FG.
 *4 Derating is required.
 *5 Please contact us about safety approvals for the model with option.

- 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. *
- *

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.

* Dimensions in mm, []=inches

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

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

Instruction Manual 3. 1/O Conn

I/O Connector		Mating Connector	Terminal					
0.14	4 4400704 0	1-1123722-5	Chain	1123721-1				
CINT	1-1123724-3	1-1123722-5	Loose	1318912-1				
CNID	1-1123723-6 1-1123722-	1-1123722-6	Chain	1123721-1				
CINZ	1-1123723-0	1-1123722-0	Loose	1318912-1				
(Mfr : Tyco Electronics AMP								

I/O Connector is Mfr.Tyco Electronics AMP
 Option : -11 : (J.S.T) connector type
 -T : Vertical terminal block type
 -T1 : Horizontal terminal block type

Refer to Instruction Manual 4.

CN1		CN2			
Pin No.	Input	Pin No.	Output		
1	AC(N)	4.0	-V		
2		1 - 3	-v		
3	AC(L)	4 - 6	+V		
4		4 - 6	+v		
5	FG				
5	FG				

COŞEL	AC-DC Po	ower S	upplies Medica	l type	Ordering information				
	DM	[Λ]	00F	PM A 100 F					
	1 11	AI	UUI				<u> </u>		
c AL us RoHS				Û		Recommended EM/EMC Filter NAM-06-000 Eveload a state of the second	1) Series name 2) Single output 3) Output wattage 4) Universal input 5) Output voltage 6) Optional *5 T : Vertical terminal blocl T1: Horizontal terminal blocl N : with Cover J1: VH(J.S.T.)connector type R : with Remote ON/OFF		
	Optional -T1	Optiona -T	l Normal	Optional -N			Specification is changed at option, refer to Instruction Manual.		
MODEL			PMA100F-3R3		DMA100E	12 DMA100E 24	PMA100F-48		
MODEL MAX OUTPL	UT WATTAGE[W]		PMA100F-3R3 66	PMA100F-5	PMA100F 102	-12 PMA100F-24 108	100.8		
DC OUTPUT			3.3V 20A	5V 20A	102 12V 8.5A	24V 4.5A	48V 2.1A		
	ICATIONS				1.2.7 0.04	100	1		
SPECIFI					B11007				
			PMA100F-3R3 AC85 - 264 1 φ (Ref	PMA100F-5	PMA100F	-12 PMA100F-24	PMA100F-48		
	VOLTAGE[V]	ACIN 100V	0.9typ (lo=100%)	1.3typ (Io=100	/				
	CURRENT[A]	ACIN 100V 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		ACIN 200V	78typ	83typ	83typ	86typ	86typ		
	POWER FACTOR	ACIN 100V	0.98typ						
		ACIN 200V	0.85typ	0.90typ					
	INRUSH CURRENT[A]	ACIN 100V ACIN 200V	20typ (lo=100%) (At						
	LEAKAGE CURREN		40typ (lo=100%) (At cold start) 0.09 / 0.18max (ACIN 100V / 240V 60Hz, lo=100%, According to IEC60601-1)						
	VOLTAGE[V]	r[ma]	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	[mV]	40max	40max	100max	150max	240max		
	RIPPLE[mVp-p]	0 to +50℃	80max	80max	120max	120max	150max		
	*1		140max	140max	160max	160max	200max		
	RIPPLE NOISE[mVp-p]	-	120max	120max	150max	150max	250max		
OUTPUT	*1		160max 50max	160max 50max	180max 120max	180max 240max	300max 480max		
	TEMPERATURE REGULATION[mV]		60max	60max	150max	240max	600max		
	DRIFT[mV]	*2	20max	20max	48max	96max	192max		
	START-UP TIME[ms]		250typ (ACIN 100V,			I			
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Id	o=100%)					
	OUTPUT VOLTAGE ADJUSTMENT	RANGE[V]	2.85 to 3.60	4.50 to 5.50	10.00 to 1		39.00 to 53.00		
	OUTPUT VOLTAGE SET		3.30 to 3.40	5.00 to 5.15	12.00 to 1		48.00 to 49.92		
PROTECTION	OVERCURRENT PROT		Works over 105% of			-			
CIRCUIT AND	OVERVOLTAGE PROTEC		4.00 to 5.25	5.75 to 7.00	15.00 to 1	8.00 30.00 to 37.00	58.00 to 65.00		
OTHERS	OPERATING INDICA	TION	LED (Green)	vtornal never -	0,000				
	REMOTE ON/OFF	w n	Optional (Required e		/	50MΩ min (At Room Temp	verature)		
ISOLATION	INPUT-FG	÷0				$50M\Omega$ min (At Room Temp	1		
.seenion	OUTPUT-RC-FG	*3				$M\Omega$ min (At Room Tempe	,		
	OPERATING TEMP., HUMID.AND					n (10,000feet) max *4	-/		
	STORAGE TEMP., HUMID.AND		-20 to +75℃, 20 - 90	,					
ENVIRONMENT	VIBRATION			· ·	e , / · · ·	es each along X, Y and Z ax	is		
	IMPACT		196.1m/s² (20G), 11	<u> </u>					
SAFETY AND	AGENCY APPROVA	LS	UL60601-1, C-UL (C						
NOISE	CONDUCTED NOISE		Complies with FCC-E	B, VCCI-B, CISP	R11-B, CISPR22-	B, EN55011-B, EN55022-E	3		
REGULATIONS	HARMONIC ATTENU		Complies with IEC61						
OTHERS	CASE SIZE/WEIGHT	•		.34×3.66×6.61	inches] (W×H×	CD) / 560g max (without co	over)		
-	COOLING METHOD Convection								

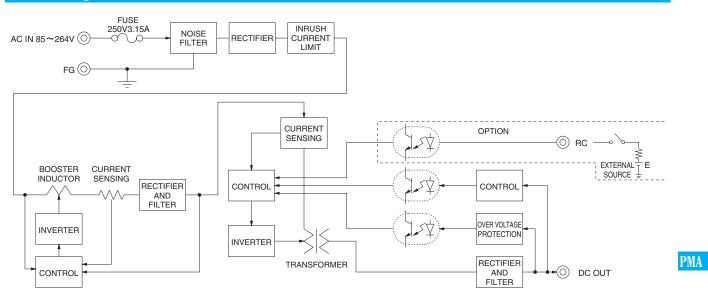
*1 Measured by 20MHz oscilloscope or Ripple-Noise meter (equivalent to KEISOKU-GIKEN: RM101).
 *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C.
 *3 Applicable when Remote ON/OFF (optional) is added. RC is insulated with input, output and FG.
 *4 Derating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

PMA

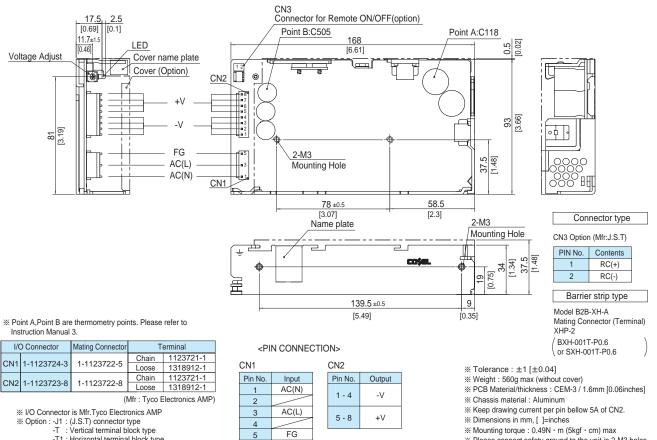
Please contact us about class C. Parallel operation with other model is not possible. *6

- *
- Derating is required when operated with cover. A sound may occur from power supply at peak loading. *

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 detalis.

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

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