PB

PBA/PBW

PRW15F











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

①Series name ②Dual output

③Output wattage

4 Universal input

(§) Output voltage (§) Optional *10

C :with Coating G:Low leakage current

E :Low leakage current and EMI class A

T :Vertical terminal block

J :Connector type

N :with Cover

N1:with DIN rail

V :Output voltage setting potentiometer externally

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MODEL		PBW15F-12	PBW15F-15
MAX OUTPUT WATTAGE[W] *5		16.8	15.0
	VOLTAGE[V] *6	±12 (+24)	±15 (+30)
DC OUTPUT	CURRENT1[A]	0.7	0.5
	CURRENT2[A] *5	1.4	1.0

SPECIFICATIONS

	MODEL		PBW15F-12		PBW15F-15			
	VOLTAGE[V]		AC85 - 264 1 \$\phi\$ or DC110 - 370 (AC50 or DC70 Please refer to the instruction manual 2.1 Input voltage *8)					
	ACIN 100V		0.40typ (CURRENT1)					
	CURRENT[A]	ACIN 200V	0.20typ (CURRENT1)					
	FREQUENCY[Hz]		50/60 (47 - 440) or DC					
INPUT	ACIN 100V		74typ (CURRENT1)		78typ (CURRENT1)			
	EFFICIENCY[%]	ACIN 200V	77typ (CURRENT1)		80typ (CURRENT1)			
		ACIN 100V	15typ (CURRENT1) (At cold	l start)				
	INRUSH CURRENT[A]	ACIN 200V	30typ (CURRENT1) (At cold start)					
	LEAKAGE CURRENT[mA]		0.15/0.30max (ACIN 100V/2	40V 60Hz, Io=100%, According to	IEC60950-1,DENAN)			
	VOLTAGE[V]		±12	/ (+24V reference number)	±15	/ (+30V reference number)		
	CURRENT1[A]		0.7	/ 0.7	0.5	/ 0.5		
	CURRENT2[A]	*5	1.4	/ -	1.0	/ -		
	LINE REGULATION[m\	/] *11	60max	/ 96max	60max	/ 96max		
	LOAD REGULATION 1		600max	/ 150max	600max	/ 150max		
	LOAD REGULATION 2		750max	/ -	750max	/ -		
	DIDDI EtV1	0 to +50°C *1	120max	/ 240max	120max	/ 240max		
	RIPPLE[mVp-p]	-10 - 0°C *1	160max	/ 320max	160max	/ 320max		
OUTPUT	DIDDLE NOICEIWAY 1	0 to +50°C *1	150max	/ 300max	150max	/ 300max		
	RIPPLE NOISE[mVp-p]	-10 - 0°C *1	180max	/ 360max	180max	/ 360max		
		0 to +50°C	120max		150max			
	TEMPERATURE REGULATION[mV]	-10 to +50℃	150max		180max	180max		
	DRIFT[mV] *2		48max		60max			
	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=100%)					
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		9.60 - 13.2 (+V and -V are	simultaneously adjusted)	13.2 - 16.5 (+V and -V are sir	nultaneously adjusted)		
	OUTPUT VOLTAGE SETTING[V]		11.5 - 12.5 (+V and -V CURRENT1) 14.4 - 15.6 (+V and -V CURRENT1)					
	OVERCURRENT PROT	ECTION	Works over 105% of rated of	current and recovers automatically				
PROTECTION CIRCUIT AND	OVERVOLTAGE PROTECTION[V]		16.8 - 24.0 20.0 - 29.0					
OTHERS	OPERATING INDICATION	NC	LED (Green)					
	REMOTE ON/OFF		None					
	INPUT-OUTPUT		AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)					
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)					
	OUTPUT-FG		AC500V 1minute, Cutoff current = 25mA, DC500V 50M Ω min (At Room Temperature)					
	OPERATING TEMP.,HUMID.AND	ALTITUDE						
ENVIRONMENT	STORAGE TEMP.,HUMID.AND	ALTITUDE	3, y					
LIVINORMENT	VIBRATION		10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis					
	IMPACT		196.1m/s ² (20G), 11ms, one					
OALLII AND	AGENCY APPROVALS (At only	/ AC input)		0-1), EN60950-1, EN50178 Compli				
NOISE	CONDUCTED NOISE			classB, VCCI-B, CISPR22-B, EN55				
REGULATIONS	TIARMONIO ATTENOA	ror		2 (Not built-in to active filter *7) *				
OTHERS	CASE SIZE/WEIGHT		-	×3.35 inches] (without terminal blo	ck) (W×H×D) / 200g max (with	h cover : 235g 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 Figures for 0 to rated current 1.The current not measured side is fixed.
- *4 Figures for 0 to rated current 2.The current not measured
- side is fixed.
- *5 The sum of +power -power must be less than output power. *6 ±12, ±15 can be used as +24 and +30.
- **★**7 When two or more units are used,they may not comply with the harmonic attenuator. Please contact us for details.
- *8 Derating is required.
- *9 Figures to rated current 1.

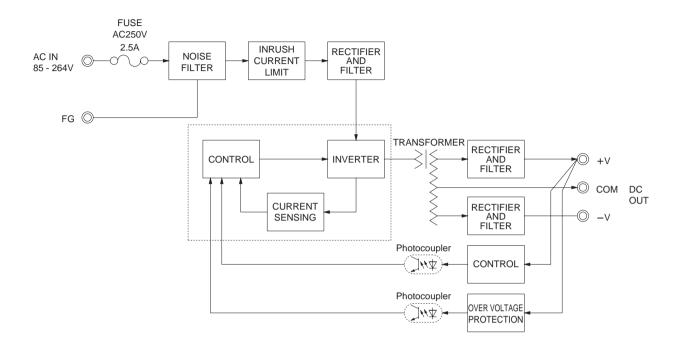
- *10 Please contact us about safety approvals for the model with option.
- *11 Please contact us about dynamic load and input response.

A sound may occur from power supply at peak loading.

- *12 Please contact us about class C.
 - Parallel operation with other model is not possible.
- Derating is required when operated with cover.

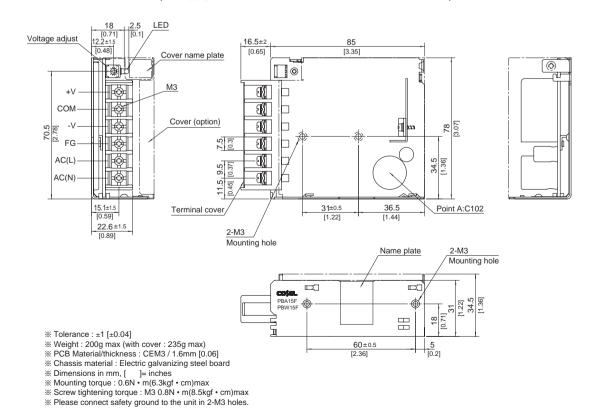
PBA/PBW-26

Block diagram



External view

** External size of option T,J,N,N1 and V is different from standard model and refer to 7 Option of instruction manual for details.



Ordering information

PBA/PBW

c¶3°us ♣ C€ **RoHS**





Recommended EMI/EMC Filter NAC-06-472

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

- ①Series name ②Dual output
- ③Output wattage
- 4 Universal input
- (§) Output voltage (§) Optional *10
 - C :with Coating
 - G:Low leakage current
 - E :Low leakage current and EMI class A
 - T :Vertical terminal block
 - J :Connector type
- N :with Cover
- N1:with DIN rail
- V :Output voltage setting potentiometer externally

Cover is optional

MODEL		PBW30F-5	PBW30F-12	PBW30F-15	
MAX OUTPUT WATTAGE[W] *5		15	31.2	30.0	
	VOLTAGE[V] *6	±5 (+10)	±12 (+24)	±15 (+30)	
DC OUTPUT	CURRENT1[A]	1.5	1.3	1.0	
	CURRENT2[A] *5	2.0	1.7	1.4	

SPECIFICATIONS

	MODEL		PBW30F-5 PBW30F-12			PBW30F-15			
	VOLTAGE[V]			AC85 - 264 1 φ or DC110 - 370 (AC50 or DC70 Please refer to the instruction manual 2.1 Input voltage *8)					
	ACIN 100V		0.4typ (CURREN	NT1)	0.7typ (CURREN	IT1)			
	CURRENT[A]	ACIN 200V	0.25typ (CURRENT1) 0.4typ (CURRENT1)			IT1)			
	FREQUENCY[Hz]		50/60 (47 - 440) or DC						
INPUT	ACIN 100V		75typ (CURREN	T1)	77typ (CURREN	T1)	78typ (CURRENT1)		
	EFFICIENCY[%]	ACIN 200V	75typ (CURREN	T1)	81typ (CURRENT1)		79typ (CURRENT1)		
		ACIN 100V	15tvp (CURREN	T1) (At cold start)					
	INRUSH CURRENT[A]	ACIN 200V							
	LEAKAGE CURRENT[mA]			CIN 100V/240V 60Hz, Io=	100%, According	to IEC60950-1,DENAN)			
	VOLTAGE[V]	-	±5	/ (+10V reference number)	±12	/ (+24V reference number)	±15	/ (+30V reference number)	
	CURRENT1[A]		1.5	/ 1.5	1.3	/ 1.3	1.0	/ 1.0	
	CURRENT2[A]	*5	2.0	/ -	1.7	/ -	1.4	/-	
	LINE REGULATION[m\	VI *11	20max	/ 36max	60max	/ 96max	60max	/ 96max	
	LOAD REGULATION 1		250max	/ 100max	600max	/ 150max	600max	/ 150max	
	LOAD REGULATION 2	[mV] **4	500max	/ -	750max	/ -	750max	/ -	
		0 to +50°C *1	80max	/ 240max	120max	/ 240max	120max	/ 240max	
	RIPPLE[mVp-p]	-10 - 0℃ *1	140max	/ 320max	160max	/ 320max	160max	/ 320max	
OUTPUT	RIPPLE NOISE[mVp-p]	0 to +50°C *1	120max	/ 300max	150max	/ 300max	150max	/ 300max	
		-10 - 0℃ *1	160max	/ 360max	180max	/ 360max	180max	/ 360max	
	TEMPERATURE REGULATION[mV]	0 to +50°C	50max		120max		150max		
		-10 to +50℃	60max		150max		180max		
	DRIFT[mV] *2		20max	48max		60max			
	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]		4.99 - 6.00 (+V and	-V are simultaneously adjusted)	9.60 - 13.2 (+V and -V are simultaneously adjusted)		13.2 - 16.5 (+V and -V are	e simultaneously adjusted)	
	OUTPUT VOLTAGE SET	TING[V]	4.99 - 5.30 (+V	and -V CURRENT1)	11.5 - 12.5 (+V a	and -V CURRENT1)	14.4 - 15.6 (+V and	-V CURRENT1)	
	OVERCURRENT PROT	ECTION	Works over 1059	% of rated current and rec	overs automaticall	у			
PROTECTION CIRCUIT AND	OVERVOLTAGE PROTEC	TION[V]	6.90 - 10.0 16.8 - 24.0			20.0 - 29.0			
OTHERS	OPERATING INDICATION	ON	LED (Green)						
	REMOTE ON/OFF		None						
	INPUT-OUTPUT		AC3,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)						
ISOLATION	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)						
	OUTPUT-FG		AC500V 1minute, Cutoff current = 25mA, DC500V 50M Ω min (At Room Temperature)						
	OPERATING TEMP.;HUMID.AND	ALTITUDE	-10 to +71°C (Required Derating), 20 - 90%RH (Non condensing) 3.000m (10.000feet) max						
ENVIRONMENT	STORAGE TEMP., HUMID. AND	ALTITUDE	-20 to +75°C, 20 - 90%RH (Non condensing) 9.000m (30.000feet) max						
ENVIRONMENT	VIBRATION		10 - 55Hz, 19.6r	n/s2 (2G), 3minutes period	d, 60minutes each	along X, Y and Z axis			
	IMPACT			, 11ms, once each X, Y a					
SAFETY AND	AGENCY APPROVALS (At only	y AC input)		L(CSA60950-1), EN60950					
NOISE	CONDUCTED NOISE			CC Part15 classB, VCCI-E					
REGULATIONS	HARMONIC ATTENUAT	TOR		C61000-3-2 (Not built-in t					
OTHERS	CASE SIZE/WEIGHT		31 × 78 × 103mm	n [1.22 × 3.07 × 4.06 inches	s] (without terminal	I block) (W x H x D) / 270	g max (with cover : 31	0g max)	
OTHERS	COOLING METHOD		Convection						

- 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 Figures for 0 to rated current 1.The current not measured side is fixed. *4 Figures for 0 to rated current 2.The current not measured
- side is fixed.
- *5 The sum of +power -power must be less than output power. *6 $\pm 5, \pm 12, \pm 15$ can be used as $\pm 10, \pm 24$ and ± 30 .
- **★7** When two or more units are used,they may not comply with
- the harmonic attenuator. Please contact us for details.
- *8 Derating is required.
- *9 Figures to rated current 1.

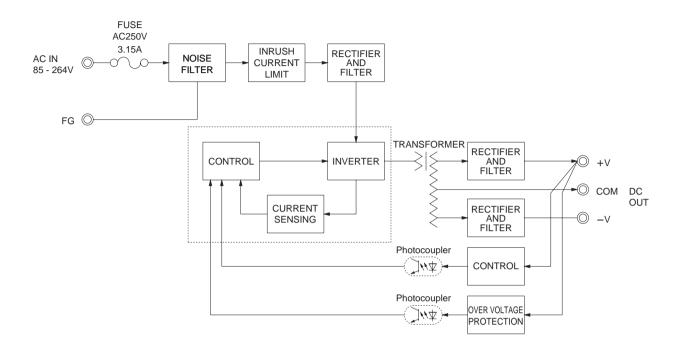
- *10 Please contact us about safety approvals for the model with option.
- *11 Please contact us about dynamic load and input response.

A sound may occur from power supply at peak loading.

- *12 Please contact us about class C.
 - Parallel operation with other model is not possible.
- Derating is required when operated with cover.

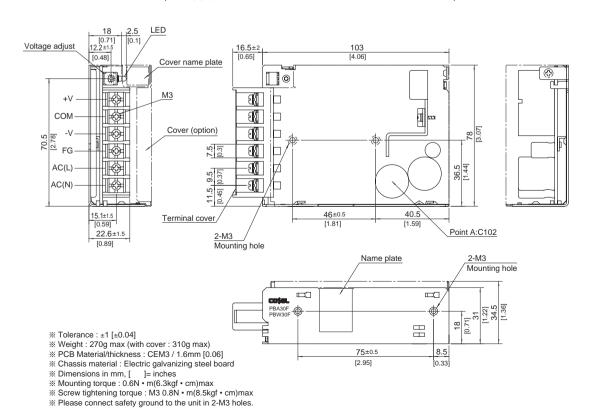
PBA/PBW-28

Block diagram



External view

** External size of option T,J,N,N1 and V is different from standard model and refer to 7 Option of instruction manual for details.



PBA/PBW







Recommended EMI/EMC Filter NAC-06-472



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

Cover is optional

- ①Series name ②Dual output
- (2) Dual output (3) Output wattage (4) Universal input (5) Output voltage (6) Optional *9 C: with Coating
- G:Low leakage current (0.15mA max / ACIN 240V) E:Low leakage current and EMI class A
- (0.5mA max / ACIN 240V)
- T :Vertical terminal block
 J :Connector type
 R :with Remote ON/OFF
- N:with Cover
- M: with DIN rail
 V:Output voltage setting potentiometer external-

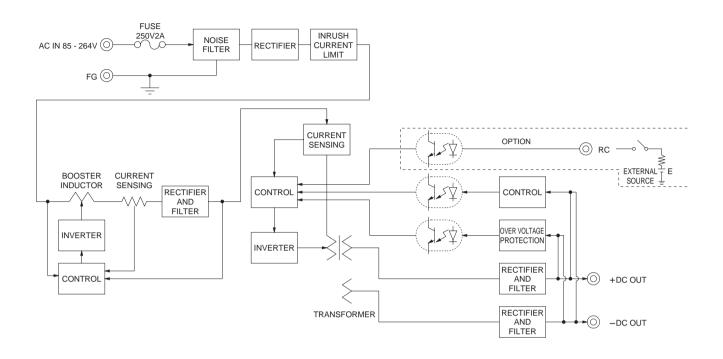
MODEL		PBW50F-5	PBW50F-12	PBW50F-15
MAX OUTPUT WATTAGE[W] *6		30	50.4	51
	VOLTAGE[V] *8	±5 (+10)	±12 (+24)	±15 (+30)
DC OUTPUT	CURRENT1[A]	3.0	2.1	1.7
	CURRENT2[A] *6	4.0	2.7	2.4

SPECIFICATIONS

	MODEL		PBW50F-5		PBW50F-12		PBW50F-15		
	VOLTAGE[V]		AC85 - 264 1 φ or DC120 - 370 (AC50 or DC70 Please refer to the instruction manual 2.1 Input voltage *3)						
			0.45typ (CURRENT	T1)	0.70typ (CURRENT1))			
			0.30typ (CURRENT	T1)	0.40typ (CURRENT1))			
	FREQUENCY[Hz]		50/60 (47 - 63)						
INPUT	EFFICIENCY[%] ACIN 100V		76typ (CURRENT1)	81typ (CURRENT1)		81typ (CURRENT1)		
	ACIN 200V		77typ (CURRENT1)		83typ (CURRENT1)		83typ (CURRENT1)		
	POWER FACTOR(Io=100%)	ACIN 100V			0.99typ				
		ACIN 200V			0.93typ				
			15typ (CURRENT1						
	INKOSTI COKKENT[A]	ACIN 200V							
	LEAKAGE CURRENT[r	nA]	0.40/0.75max (ACII	N 100V/240V 60Hz, lo=					
	VOLTAGE[V]		±5	/ (+10V reference number)		/ (+24V reference number)	±15	/ (+30V reference number)	
	CURRENT1[A]		3.0	/ 3.0		/ 2.1		-	
	CURRENT2[A]	*6	4.0	/ -		/ -			
	LINE REGULATION[m\		20max	/ 36max	48max	/ 96max		/ 96max	
	LOAD REGULATION 1		250max	/ 100max	600max	/ 150max			
	LOAD REGULATION 2		500max	/ -	1 0 0 111 days	/ -		<u>'</u>	
	RIPPLE[mVp-p]	0 to +50°C *1		/ 240max		/ 240max			
	==[-10 - 0℃ *1		/ 320max		/ 320max			
OUTPUT	RIPPLE NOISE[mVp-p]	0 to +50°C *1	120max	/ 300max	-	/ 300max			
		-10 - 0℃ *1	160max	/ 360max	180max	/ 360max		/ 360max	
	TEMPERATURE REGULATION(mV)	0 to +50℃			120max				
	-10 to +50℃				150max				
	DRIFT[mV] *2								
	START-UP TIME[ms]		350typ(ACIN 100V, Io=100%)						
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%) 4.99 - 6.00 (+V and -V are simultaneously adjusted) 9.60 - 13.2 (+V and -V are simultaneously adjusted) 13.2 - 16.5 (+V and -V are simultaneously adjusted)						
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V] OUTPUT VOLTAGE SETTING[V]								
			4.99 - 5.30 (+V and		11.5 - 12.5 (+V and -	V CURRENT1)	14.4 - 15.6 (+V and	-V CURRENT1)	
PROTECTION	OVERCURRENT PROTECTION		Works over 105% of rated current and recovers automatically 6.90 - 10.0 16.8 - 24.0 20.0 - 29.0						
CIRCUIT AND	OVERVOLTAGE PROTEC		6.90 - 10.0 LED (Green)				20.0 - 29.0	9.0	
OTHERS	REMOTE ON/OFF	JN		autarnal nautar aguraa)	\				
	INPUT-OUTPUT · RC	*7	Optional (Required external power source) AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)						
ISOLATION	INPUT-FG	↑ 1	AC2,000V Tminute, Cutoff current = 10mA, DC500V 50M Ω min (At Room Temperature)						
ISOLATION	OUTPUT · RC-FG	*7							
			-10 to +71°C (Required Derating), 20 - 90%RH (Non condensing) 3,000m (10,000feet) max						
	STORAGE TEMP.,HUMID.AND								
ENVIRONMENT	VIBRATION	ALIIIODL	10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis						
	IMPACT			1ms, once each X, Y a		g, 1 and 2 axis			
SAFETY AND	,	/ AC input)		CSA60950-1), EN60950		s with DEN-AN			
NOISE	CONDUCTED NOISE	,		Part15 classB, VCCI-E					
REGULATIONS	HARMONIC ATTENUAT	FOR	Complies with IEC6						
	CASE SIZE/WEIGHT				s) (without terminal bloc	ck) (W×H×D) / 280	g max (with cover : 32	25g max)	
OTHERS	COOLING METHOD		Convection	,,0.20,, 2 #101100	-,	, (, 7, 200	3 (00.01 . 02		
	COCENTO INC. ITIOD		CONVECTION				mber) ±15		

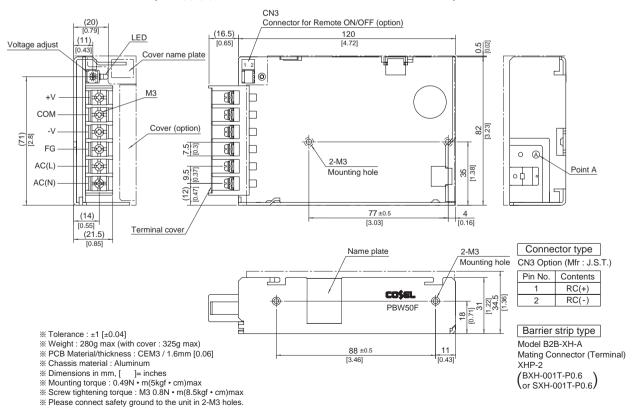
- *1 Measured by 20MHz oscilloscope or Ripple-Noise meter(equivalent to KEISOKU-GIKEN: RM101).
- *2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25℃.
- *3 Derating is required.
- *4 Figures for 0 to rated current 1.The current not measured side is fixed.
- *5 Figures for 0 to rated current 2.The current not measured side is fixed.
- *6 The sum of +power -power must be less than output power. *7 RC is applied to remote ON/OFF option. RC is isolated with
- input/output and FG.
- *8 $\pm 5, \pm 12, \pm 15$ can be used as +10,+24 and +30.
- *9 Please contact us about safety approvals for the model with option.
- *10 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.

Block diagram



External view

** External size of option T,J,R,N,N1 and V is different from standard model and refer to 7 Option of instruction manual for details.



AMEYA360 Components Supply Platform

Authorized Distribution Brand:

























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