	38	15F	PB 0 2	High voltage pulse noise type : NA High voltage pulse noise type : NA High voltage pulse noise type : NA Ar the EMVEMC Filter is recommer to connect with several devices	(1) Series name         (2) Dual output         (3) Output wattage         (4) Universal input         (5) Output voltage         (8) Optional *10         C :with Coating         G :Low leakage current         H series         Mestics A			
/ATTAGE[W]	*5			High voltage pulse noise type : NA High voltage pulse noise type : NA High voltage pulse noise type : NA Ar the EMVEMC Filter is recommer to connect with several devices	①Series name         ②Dual output         ③Output wattage         ④Universal input         ⑤Output voltage         ⑥Optional *10         C :with Coating         G :Low leakage current         W series         Medd         T :Vertical terminal block         J :Connector type         N :with Cover         N: with DIN rail         V :Output voltage settin			
	*5							
	*5	DDW/455 40		Cover is optic	onal			
		PBW15F-12 16.8		PBW15F-15 15.0				
	VOLTAGE[V] *6	±12 (+24)		±15 ( +30 )				
	CURRENT1[A]			0.5				
ATIONS	CURRENT2[A] *5	1.4		1.0				
ODEL		PBW15F-12		PBW15F-15				
DLTAGE[V]		AC85 - 264 1 \$\phi\$ or DC110 - 370 (AC	50 or DC70 Plagos rafor		t loout voltage st 9)			
	ACIN 100V	0.40typ (CURRENT1)	50 of DC/0 Flease feler	to the instruction manual 2	. Tinput voltage *8/			
JRRENT[A]	ACIN 100V	0.20typ (CURRENT1)						
REQUENCY[Hz]	ACIN 200V	50/60 (47 - 440) or DC						
	ACIN 100V	74typ (CURRENT1)		78typ (CURRENT1)				
EFFICIENCY[%]         ACIN 1007           INRUSH CURRENT[A]         ACIN 1007           ACIN 2007         ACIN 2007				80typ (CURRENT1)				
		30typ (CURRENT) (At cold start)						
LEAKAGE CURRENT[mA]		0.15/0.30max (ACIN 100V/240V 60Hz, Io=100%, According to IEC60950-1,DENAN)						
VOLTAGE[V]			24V reference number )	±15	/ (+30V reference number)			
JRRENT1[A]		0.7 / 0.7	,	0.5	/ 0.5			
JRRENT2[A]	*5			1.0	/-			
NE REGULATION[m\	/] *11	60max / 96	max	60max	/ 96max			
DAD REGULATION 1	[mV] 👬	600max / 15	0max	600max	/ 150max			
DAD REGULATION 2	mV] 👬	750max / -		750max	/ -			
	0 to +50℃ *1	120max / 24	0max	120max	/ 240max			
PPLE[mVp-p]	-10 - 0°C *1	160max / 32	0max	160max	/ 320max			
	0 to +50℃ *1			150max	/ 300max			
FFEE NOISE[IIIvp-p]	-10 - 0℃ *1		0max	180max	/ 360max			
	0 to +50℃	120max		150max				
	-10 to +50℃	150max		180max				
RIFT[mV]	*2	48max 60max						
		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						
	DANOFR				are simultaneously adjusts th			
				13.2 - 16.5 (+V and -V are simultaneously adjusted)				
			in recovers automatically					
		None						
PUT-OUTPUT			AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)					
INPUT-FG								
JTPUT-FG		AC500V 1minute, Cutoff current = 25mA, DC500V 50M $\Omega$ 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						
STORAGE TEMP.,HUMID.AND ALTITUDE		-20 to +75°C, 20 - 90%RH (Non condensing) 9,000m (30,000feet) max						
VIBRATION		10 - 55Hz, 19.6m/s <sup>2</sup> (2G), 3minutes period, 60minutes each along X, Y and Z axis						
PACT			196.1m/s <sup>2</sup> (20G), 11ms, once each X. Y and Z axis					
	AC input)							
CONDUCTED NOISE								
	OR							
ASE SIZE/WEIGHT			ches] (without terminal b	olock) (W×H×D) / 200g ma	ax (without cover)			
JOLING METHOD		Convection						
20MHz oscilloscope or F	ipple-Nois	e side is fixed.		*10 Please contact	t us about safety approvals for the model wi			
	PLE NOISE[mVp-p] PERATURE REGULATION[mV] IFT[mV] IFT[mV] IATT-UP TIME[ms] PUT VOLTAGE ADJUSTMENT TPUT VOLTAGE ADJUSTMENT TPUT VOLTAGE SET ERCURRENT PROT ERVOLTAGE PROTEC ERATING INDICATION MOTE ON/OFF UT-OUTPUT UT-FG RATING TEMP.,HUMID.AND RAGE TEMP.,HUMID.AND RAGE TEMP.,HUMID.AND RAGE TEMP.,HUMID.AND RAGE TEMP.,HUMID.AND RAGE TEMP.,HUMID.AND RAGE TEMP.,HUMID.AND RAGE TEMP.,HUMID.AND RATON NCY APPROVALS (At only NDUCTED NOISE RMONIC ATTENUAT SE SIZE/WEIGHT OLING METHOD OMHZ oscilloscope or F nt to KEISOKU-GIKEN rege in DC output for an Ir warm-up at 25°C.	PLE NOISE[mVp-p] PLE NOISE[mVp-p] PERATURE REGULATION[mV] PERATURE REGULATION[mV] PERATURE REGULATION[mV] PERATURE REGULATION[mV] PUT VOLTAGE ADJUSTMENT RANGE[V] PUT VOLTAGE PROTECTION[V] ERCURRENT PROTECTION[V] ERCURRENT PROTECTION[V] ERATING INDICATION MOTE ON/OFF UT-OUTPUT UT-FG RATING TEMP.;HUMID.AND ALTITUDE RAGE TEMP.;HUMID.AND ALTITUDE RAGE TEMP.;HUMID.AND ALTITUDE RAGE TEMP.;HUMID.AND ALTITUDE RAGE TEMP.;HUMID.AND ALTITUDE RAGE TEMP.;HUMID.AND ALTITUDE RAGINC ATTENUATOR SE SIZE/WEIGHT OLING METHOD OMHz oscilloscope or Ripple-Nois nt to KEISOKU-GIKEN : RM101). nge in DC output for an eight hour IT warm-up at 25°C.	10-00*1         160max         / 32           PLE NOISE[mVp-p]         0 to +500*1         150max         / 30           PLE NOISE[mVp-p]         0 to +500*1         180max         / 30           PERATURE REGULATION[mV]         0 to +500*1         120max         / 36           PLE VOISE[mVp-p]         *2         48max         / 36           PLT VOITAGE ADJUSTMENT RANGE[V]         200typ (ACIN 100V, Io=100%) *Start-u         LD-UP TIME[ms]         200typ (ACIN 100V, Io=100%) *Start-u           LD-UP TIME[ms]         200typ (ACIN 100V, Io=100%)         *Start-u         LD-UP TIME[ms]         20typ (ACIN 100V, Io=100%)           PUT VOLTAGE ADJUSTMENT RANGE[V]         9.60 - 13.2 (+V and -V cure simultane         The to +500*1         11.5 - 12.5 (+V and -V cure simultane           TPUT VOLTAGE SETTING[V]         11.5 - 12.5 (+V and -V cure ret and -V curent and the to +500*1         The to +50*0 + 100%)         *Start-u           ERCURRENT PROTECTION[V]         16.8 - 24.0         ERATING INDICATION         LED (Green)         MOTE ON/OFF         None           UT-OUTPUT         AC3.000V 1minute, Cutoff current = 25         The to +71°C (Required Derating), 20         RAGE TEMP,HUMID.AND ALTITUDE         -10 to +71°C (Required Derating), 20           RACT         196.1m/s² (20G), 11ms, once each 20         NCY APPROVALS (At only AC input)         UL60950-1, C-UL(CSA	-10 · U c *         150max         / 320max           PLE NOISE[mVp-p]         0 to +50 c *         150max         / 300max           ·10 · 0 c *         180max         / 300max         / 300max           ·10 · 0 c *         180max         / 360max         / 360max           ·2FRATURE REGULATION[mv]         0 to +50 c         120max         / 360max           ·10 · 0 c *         180max         / 360max         / 360max           /FT[mV]         *2         48max         / 300max           NRT-UP TIME[ms]         200typ (ACIN 100V. lo=100%)         *Start-up time is 700ms typ for lest LD-UP TIME[ms]           UV VOLTAGE ADJUSTMENT RANGE[V]         9.60 - 13.2 (+V and -V are simultaneously adjusted)           TPUT VOLTAGE SETTING[V]         11.5 - 12.5 (+V and -V CURRENT1)           ERCURRENT PROTECTION         Works over 105% of rated current and recovers automatically           RWOLTAGE PROTECTION[V]         16.8 - 24.0           ERATING INDICATION         LED (Green)           WOTE ON/OFF         None           UT-UT-FG         AC2.000V 1minute, Cutoff current = 10mA, DC500V 50MΩ mination at the current = 10mA, DC500V 50MΩ mination at the current = 10mA, DC500V 50MΩ mination at the current = 10mA, DC500V 50MΩ minating at the current = 10mA, DC500V 50MΩ minating at the current = 10mA, DC500V 50MΩ minating at the current = 10mA, DC500V 50MΩ mination at the current = 10mA, DC50	10.00%         160max         7320max         160max           PLE NOISE[mVp-p]         10.00%         180max         7300max         150max           PLE NOISE[mVp-p]         0.00%         180max         7300max         180max           erarure regulation         0.00%         180max         7300max         180max           erarure regulation         0.00%         180max         150max         180max           erarure regulation         0.00%         200xp(ACIN 100V, lo=100%)         *Start-up time is 700ms typ for less than 1minute of applying in LD-UP TIME[ms]           200typ(ACIN 100V, lo=100%)         20typ (ACIN 100V, lo=100%)         *Start-up time is 700ms typ for less than 1minute of applying in LD-UP TIME[ms]         20typ (ACIN 100V, lo=100%)           20T V0LTAGE ADJUSTMENT RANGE[V]         9.60 - 13.2 (+V and -V are simultaneously adjusted)         13.2 - 16.5 (+V and -V           FERCURRENT PROTECTION         Works over 105% of rated current and recovers automatically         20.0 - 29.0           ERATING INDICATION         LED (Green)         Works over 105% of rated current = 10mA. DC500V 50MΩ min (At Room Temperature)           TUT-OUTPUT         AC3.000V 1minute. Cutoff current = 25mA. DC500V 50MΩ min (At Room Temperature)           TUT-FG         AC200V 1minute. Cutoff current = 25mA. DC500V 50MΩ min (At Room Temperature)           RATION         10 - 55Hz. 19.6			

\*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

PBA/PI

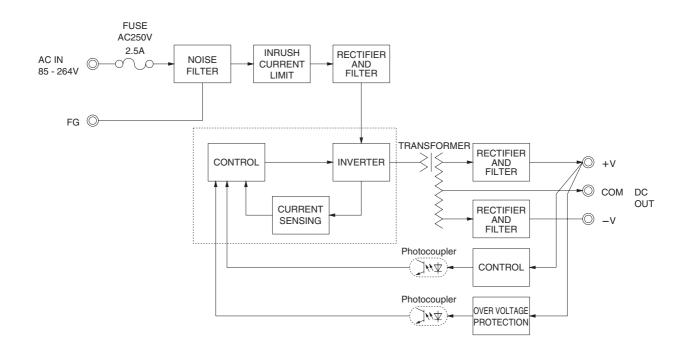
the harmonic attenuator. Please contact us for details.

\*8 Derating is required.\*9 Figures to rated current 1.

- 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. \*

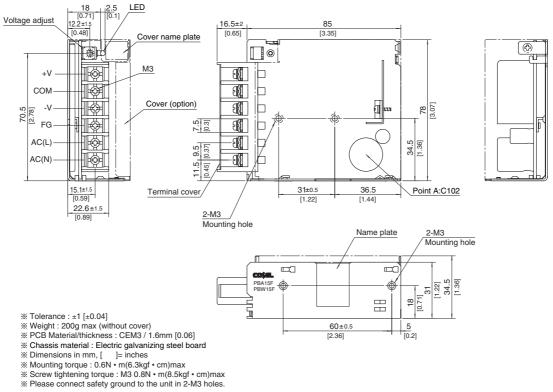
## PBW15F | CO\$EL

**Block diagram** 



**External view** 





PBA/PBW

COŞE				ciosed type	Ordering information				
	Pl	BW	30F		<b>PB</b>	W 30	<b>F</b>	• <u>•</u> •	
CROHS	S CE					Recommended EM NAC-OG-472 Weight voltage pulse noise to Low leakage current typ * The EM/EMC Filter is re- to connect with several	pe : NAP series : : NAM series : ommended	<ul> <li>(1) Series name</li> <li>(2) Dual output</li> <li>(3) Output wattage</li> <li>(4) Universal input</li> <li>(5) Output voltage</li> <li>(6) Optional *10</li> <li>C :with Coating</li> <li>G : Low leakage current</li> <li>E :Low leakage current</li> <li>E :Low leakage current</li> <li>E :Low leakage current</li> <li>E :Low leakage current</li> <li>C :with Coating</li> <li>G :Low leakage current</li> <li>C :with Coating</li> <li>C : :with Coating</li> <li>C :wit</li></ul>	
						Cover is o	·		
MODEL	T WATTAGE[W]	*5	PBW30F-5 15		PBW30F-12 31.2		PBW30F- 30.0	15	
		VOLTAGE[V] *6			±12 (+24 )		±15 (+30	))	
DC OUTPUT		CURRENT1[A]	1.5		1.3		1.0		
		CURRENT2[A] * 5	2.0		1.7		1.4		
PFCIF	ICATIONS								
							DDWOOD	4.5	
	MODEL VOLTAGE[V]		PBW30F-5	r DC110 - 370 (AC50	PBW30F-12	or to the instruction man	PBW30F-		
	ACIN 100V					DC70 Please refer to the instruction manu 0.7typ (CURRENT1)		ai 2. i input voitage *8)	
	CURRENT[A]		0.25typ (CURREN			0.4typ (CURRENT1)			
	FREQUENCY[Hz]		50/60 (47 - 440) o			<u>,</u>			
IPUT	ACIN 100V		75typ (CURRENT		77typ (CURREN	T1)	78typ (CURRENT1)		
-	EFFICIENCY[%]					B1typ (CURRENT1)		79typ (CURRENT1)	
		ACIN 100V	15typ (CURRENT	5typ (CURRENT1) (At cold start)					
	INRUSH CURRENT[A]	ACIN 200V	30typ (CURRENT	1) (At cold start)					
	LEAKAGE CURRENT[	mA]				to IEC60950-1, DENAN)			
	VOLTAGE[V]		±5	/ ( +10V reference number		/ ( +24V reference number		/ ( +30V reference numb	
	CURRENT1[A]		1.5	/ 1.5	1.3	/ 1.3	1.0	/ 1.0	
	CURRENT2[A]	*5	-	/-	1.7	/-	1.4	/ -	
	LINE REGULATION[m]		20max 250max	/ 36max / 100max	60max 600max	/ 96max	60max 600max	/ 96max	
	LOAD REGULATION 1		500max	/ Toomax / -	750max	/ 150max / -	750max	/ 150max / -	
	LOAD REGULATION 2		JUUIIIAX	/ =	1 Juliax			/ =	
R		0 to -50 **	80max	/ 240max	120max			/ 240may	
	RIPPLE[mVp-p]	0 to +50℃ *1 -10 - 0℃ *1		/ 240max / 320max	120max 160max	/ 240max	120max	/ 240max / 320max	
UTPUT		-10 - 0°C *1		/ 240max / 320max / 300max	120max 160max 150max			/ 240max / 320max / 300max	
UTPUT	RIPPLE[mVp-p] RIPPLE NOISE[mVp-p]	-10 - 0°C *1	140max	/ 320max	160max	/ 240max / 320max	120max 160max	/ 320max	
UTPUT	RIPPLE NOISE[mVp-p]	-10 - 0°C *1 0 to +50°C *1 -10 - 0°C *1 0 to +50°C	140max 120max 160max 50max	/ 320max / 300max	160max 150max 180max 120max	/ 240max / 320max / 300max	120max 160max 150max 180max 150max	/ 320max / 300max	
UTPUT	RIPPLE NOISE[mVp-p]	-10 - 0℃ *1 0 to +50℃ *1 -10 - 0℃ *1 0 to +50℃ -10 to +50℃	140max 120max 160max 50max 60max	/ 320max / 300max	160max 150max 180max 120max 150max	/ 240max / 320max / 300max	120max 160max 150max 180max 150max 180max	/ 320max / 300max	
UTPUT	RIPPLE NOISE[mVp-p] TEMPERATURE REGULATION[mV] DRIFT[mV]	-10 - 0°C *1 0 to +50°C *1 -10 - 0°C *1 0 to +50°C	140max 120max 160max 50max 60max 20max	/ 320max / 300max / 360max	160max 150max 180max 120max 150max 48max	/ 240max / 320max / 300max / 360max	120max 160max 150max 180max 150max 180max 60max	/ 320max / 300max / 360max	
UTPUT	RIPPLE NOISE[mVp-p] TEMPERATURE REGULATION[mV] DRIFT[mV] START-UP TIME[ms]	-10 - 0℃ *1 0 to +50℃ *1 -10 - 0℃ *1 0 to +50℃ -10 to +50℃	140max 120max 160max 50max 60max 20max 20max 200typ(ACIN 100V,	/ 320max / 300max / 360max lo=100%) *Start-up tir	160max 150max 180max 120max 150max 48max	/ 240max / 320max / 300max / 360max	120max 160max 150max 180max 150max 180max 60max	/ 320max / 300max / 360max	
UTPUT	RIPPLE NOISE[mVp-p] TEMPERATURE REGULATION[mV] DRIFT[mV] START-UP TIME[ms] HOLD-UP TIME[ms]	-10 - 0°C *1 0 to +50°C *1 -10 - 0°C *1 0 to +50°C -10 to +50°C +10 to +50°C *2	140max 120max 160max 50max 60max 20max 200typ(ACIN 100V, 200typ (ACIN 100V)	/ 320max / 300max / 360max lo=100%) *Start-up tin /, lo=100%)	160max 150max 180max 120max 150max 48max me is 700ms typ for le	/ 240max / 320max / 300max / 360max ess than 1minute of applyi	120max 160max 150max 180max 150max 180max 60max ng input again	/ 320max / 300max / 360max from turning off the input volta	
UTPUT	RIPPLE NOISE[mVp-p] TEMPERATURE REGULATION[mV] DRIFT[mV] START-UP TIME[ms] HOLD-UP TIME[ms] OUTPUT VOLTAGE ADJUSTMEN	-10 - 0°C *1 0 to +50°C *1 -10 - 0°C *1 0 to +50°C -10 to +50°C *2 IT RANGE[V]	140max 120max 160max 50max 20max 20max 200typ(ACIN 100V, 20typ (ACIN 100V 4.99 - 6.00 (+V and -V	/ 320max / 300max / 360max lo=100%) *Start-up tin /, lo=100%) / are simultaneously adjusted	160max           150max           180max           120max           150max           48max           48max           me is 700ms typ for lee           xd)           9.60 - 13.2 (+V and -	/ 240max / 320max / 300max / 360max #255 than 1minute of applyi -V are simultaneously adjusted	120max           160max           150max           180max           180max           160max           190max           13.2 - 16.5 (-	/ 320max / 300max / 360max from turning off the input voltage +V and -V are simultaneously adjust	
UTPUT	RIPPLE NOISE[mVp-p] TEMPERATURE REGULATION[mV] DRIFT[mV] START-UP TIME[ms] HOLD-UP TIME[ms] OUTPUT VOLTAGE ADJUSTMEN OUTPUT VOLTAGE SET	-10 - 0°C *1 -10 - 0°C *1 -10 - 0°C *1 0 to +50°C -10 to +50°C *2 IT RANGE[V] TTING[V]	140max 120max 160max 50max 20max 200tpp(ACIN 100V, 20tpp (ACIN 100V, 20tpp (ACIN 100V 4.99 - 6.00 (+V and -V 4.99 - 5.30 (+V ar	/ 320max / 300max / 360max lo=100%) *Start-up tin /, lo=100%) / are simultaneously adjusted nd -V CURRENT1)	160max           150max           180max           120max           150max           48max           eis 700ms typ for leg           eid)           9.60 - 13.2 (+V and -11.5 - 12.5 (+V and -11.5 - 1	/ 240max / 320max / 300max / 360max / 360max / 360max / are simultaneously adjusted and -V CURRENT1)	120max           160max           150max           180max           180max           160max           190max           13.2 - 16.5 (-	/ 320max / 300max / 360max from turning off the input volta	
	RIPPLE NOISE[mVp-p] TEMPERATURE REGULATION[mV] DRIFT[mV] START-UP TIME[ms] HOLD-UP TIME[ms] OUTPUT VOLTAGE ADJUSTMEN OUTPUT VOLTAGE SE OVERCURRENT PROT	-10 - 0°C *1 0 to +50°C *1 -10 - 0°C *1 0 to +50°C -10 to +50°C *2 TT RANGE[V] TTING[V] TECTION	140max 120max 160max 50max 20max 200typ(ACIN 100V, 20typ (ACIN 100V, 20typ (ACIN 100V 4.99 - 5.30 (+V ard -V 4.99 - 5.30 (+V ard -V Works over 105%	/ 320max / 300max / 360max lo=100%) *Start-up tin /, lo=100%) / are simultaneously adjusted	160max           150max           180max           120max           150max           48max           me is 700ms typ for leg           eig)           9.60 - 13.2 (+V and - 11.5 - 12.5 (+V ard - 11.5 - 12.5 (+V	/ 240max / 320max / 300max / 360max / 360max / 360max / are simultaneously adjusted and -V CURRENT1)	120max 160max 150max 180max 150max 180max 60max ng input again 13.2 - 16.5 ( 14.4 - 15.6	/ 320max / 300max / 360max from turning off the input volta +V and -V are simultaneously adjust 6 (+V and -V CURRENT1)	
ROTECTION RCUIT AND	RIPPLE NOISE[mVp-p] TEMPERATURE REGULATION[mV] DRIFT[mV] START-UP TIME[ms] HOLD-UP TIME[ms] OUTPUT VOLTAGE ADJUSTMEN OUTPUT VOLTAGE SE OVERCURRENT PROT	-10 - 0°C *1 0 to +50°C *1 -10 - 0°C *1 0 to +50°C -10 to +50°C -10 to +50°C *2 *2 IT RANGE[V] TTING[V] FECTION[V]	140max 120max 160max 50max 20max 200tpp(ACIN 100V, 20tpp (ACIN 100V, 20tpp (ACIN 100V 4.99 - 6.00 (+V and -V 4.99 - 5.30 (+V ar	/ 320max / 300max / 360max lo=100%) *Start-up tin /, lo=100%) / are simultaneously adjusted nd -V CURRENT1)	160max           150max           180max           120max           150max           48max           eis 700ms typ for leg           eid)           9.60 - 13.2 (+V and -11.5 - 12.5 (+V and -11.5 - 1	/ 240max / 320max / 300max / 360max / 360max / 360max / are simultaneously adjusted and -V CURRENT1)	120max           160max           150max           180max           180max           160max           190max           13.2 - 16.5 (-	/ 320max / 300max / 360max from turning off the input volta +V and -V are simultaneously adjust 6 (+V and -V CURRENT1)	
ROTECTION RCUIT AND	RIPPLE NOISE[mVp-p] TEMPERATURE REGULATION[mV] DRIFT[mV] START-UP TIME[ms] HOLD-UP TIME[ms] OUTPUT VOLTAGE ADJUSTMEN OUTPUT VOLTAGE ADJUSTMEN OVERCURRENT PROTE OVERVOLTAGE PROTEC OPERATING INDICATI REMOTE ON/OFF	-10 - 0°C *1 0 to +50°C *1 -10 - 0°C *1 0 to +50°C -10 to +50°C -10 to +50°C *2 *2 IT RANGE[V] TTING[V] FECTION[V]	140max 120max 160max 50max 60max 200typ(ACIN 100V, 20typ (ACIN 100V, 20typ (ACIN 100V, 4.99 - 5.00 (+V ard -V 4.99 - 5.30 (+V ard Works over 105% 6.90 - 10.0 LED (Green) None	/ 320max / 300max / 360max lo=100%) *Start-up tir /, lo=100%) 'are simultaneously adjusted rd -V CURRENT1) of rated current and re	160max           150max           180max           120max           150max           48max           me is 700ms typ for le           11.5 - 12.5 (+V and 11.5 - 12.5 (+V ard 11.5 - 12.5 (+V ard 11.5 - 12.5 (+V ard 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 - 24.0 11.5 -	/ 240max / 320max / 300max / 360max / 360max / 360max	120max 160max 150max 180max 180max 60max ng input again 13.2 - 16.5 ( 14.4 - 15.6 20.0 - 29.0	/ 320max / 300max / 360max from turning off the input volta +V and -V are simultaneously adjust 6 (+V and -V CURRENT1)	
ROTECTION IRCUIT AND THERS	RIPPLE NOISE[mVp-p] TEMPERATURE REGULATION[mV] DRIFT[mV] START-UP TIME[ms] OUTPUT VOLTAGE ADJUSTMEN OUTPUT VOLTAGE ADJUSTMEN OUTPUT VOLTAGE PROTEC OVERCURRENT PROT OVERVOLTAGE PROTEC OPERATING INDICATI REMOTE ON/OFF INPUT-OUTPUT	-10 - 0°C *1 0 to +50°C *1 -10 - 0°C *1 0 to +50°C -10 to +50°C -10 to +50°C *2 *2 IT RANGE[V] TTING[V] FECTION[V]	140max 120max 160max 50max 20max 20max 20typ (ACIN 100V, 20typ (ACIN 100V, 20typ (ACIN 100V, 4.99 - 5.30 (+V ar Works over 105% 6.90 - 10.0 LED (Green) None AC3,000V 1minute	/ 320max / 300max / 360max lo=100%) *Start-up tir /, lo=100%) / are simultaneously adjusted nd -V CURRENT1) of rated current and re e, Cutoff current = 10m	160max           150max           180max           120max           150max           48max           me is 700ms typ for legal           3d)         9.60 - 13.2 (+V and -11.5 - 12.5 (+V and -11	/ 240max / 320max / 300max / 360max / 360max / 360max / 4 completion // 4 comp	120max 160max 150max 150max 180max 180max 60max 180max 9 input again 13.2 - 16.5 ( 14.4 - 15.6 20.0 - 29.0	/ 320max / 300max / 360max from turning off the input volta +V and -V are simultaneously adjust 6 (+V and -V CURRENT1)	
ROTECTION IRCUIT AND THERS	RIPPLE NOISE[mVp-p] TEMPERATURE REGULATION[mV] DRIFT[mV] START-UP TIME[ms] HOLD-UP TIME[ms] OUTPUT VOLTAGE ADJUSTMEN OUTPUT VOLTAGE ADJUSTMEN OVERCURRENT PROT OVERCURRENT PROT OVERCURRENT PROT OVERCURRENT PROT OVERATING INDICATI REMOTE ON/OFF INPUT-OUTPUT INPUT-FG	-10 - 0°C *1 0 to +50°C *1 -10 - 0°C *1 0 to +50°C -10 to +50°C -10 to +50°C *2 *2 IT RANGE[V] TTING[V] FECTION[V]	140max 120max 160max 50max 20max 20max 20typ (ACIN 100V, 20typ (ACIN 100V, 20typ (ACIN 100V, 4.99 - 5.30 (+V and -V 4.99 - 5.30 (+V ard -V 4.99 - 5.30 (+V ard -V 4.99 - 5.30 (+V ard -V 4.99 - 10.5% 6.90 - 10.0 LED (Green) None AC3.000V 1minute AC2.000V 1minute	/ 320max / 300max / 360max / 360max / 10=100%) *Start-up tir /, lo=100%) / are simultaneously adjusted nd -V CURRENT1) of rated current and re e. Cutoff current = 10m e, Cutoff current = 10m	160max           150max           180max           120max           150max           150max           150max           150max           48max           me is 700ms typ for legendress           9.60 - 13.2 (+V and -11.5 - 12.5 (+V	/ 240max / 320max / 300max / 360max / 360max / 360max / 4 com applyi // are simultaneously adjusted and -V CURRENT1) // // // // // // // // // // // // //	120max 160max 150max 150max 150max 150max 60max 180max 60max 10 13.2 - 16.5 ( 14.4 - 15.6 20.0 - 29.0 ure) ure)	/ 320max / 300max / 360max from turning off the input voltag +V and -V are simultaneously adjust 6 (+V and -V CURRENT1)	
ROTECTION IRCUIT AND THERS	RIPPLE NOISE[mVp-p] TEMPERATURE REGULATION[mV] DRIFT[mV] START-UP TIME[ms] HOLD-UP TIME[ms] OUTPUT VOLTAGE ADJUSTMEN OUTPUT VOLTAGE ADJUSTMEN OVERCURRENT PROT OVERCURRENT PROT OVERVOLTAGE PROTEC OPERATING INDICATI REMOTE ON/OFF INPUT-GG OUTPUT-FG	-10 - 0/C *1 0 to +50/C *1 -10 - 0/C *1 0 to +50/C -10 to +50/C -10 to +50/C 17 RANGE[V] TTING[V] TECTION CTION[V] ON	140max 120max 160max 50max 20max 200typ(ACIN 100V, 20typ (ACIN 100V, 20typ (ACIN 100V, 4.99 - 6.00 (+V and -V 4.99 - 5.30 (+V ar Works over 105% 6.90 - 10.0 LED (Green) None AC3.000V 1minute AC2.000V 1minute AC500V 1minute	/ 320max / 300max / 360max lo=100%) *Start-up tir /, lo=100%) 'are simultaneously adjuster nd -V CURRENT1) of rated current and re e. Cutoff current = 10m e. Cutoff current = 10m Cutoff current = 25mA	160max           150max           180max           120max           120max           150max           48max           me is 700ms typ for level           11.5 - 12.5 (+V and -1.5 - 12.5 - 12.5 - 12.5 - 12.5 (+V and -1.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12	/ 240max / 320max / 300max / 360max ass than 1minute of applyi -V are simultaneously adjusted and -V CURRENT1) ly min (At Room Temperat min (At Room Temperatu	120max 160max 150max 150max 150max 150max 150max 60max 180max 60max 13.2 - 16.5 ( 14.4 - 15.6 20.0 - 29.0 ure) ure) e)	/ 320max / 300max / 360max from turning off the input voltag +V and -V are simultaneously adjust 6 (+V and -V CURRENT1)	
ROTECTION IRCUIT AND THERS	RIPPLE NOISE[mVp-p] TEMPERATURE REGULATION[mV] DRIFT[mV] START-UP TIME[ms] HOLD-UP TIME[ms] OUTPUT VOLTAGE ADJUSTMEN OUTPUT VOLTAGE ADJUSTMEN OVERCURRENT PROT OVERCURRENT PROT OVERCURRENT PROT OVERVOLTAGE PROTEC OPERATING INDICATI REMOTE ON/OFF INPUT-FG OUTPUT-FG OUTPUT-FG OPERATING TEMP.HUMID.AND	-10 - 0'C *1 0 to +50'C *1 -10 - 0'C *1 0 to +50'C -10 to +50'C *2 IT RANGE[V] TEANGE[V] TECTION CTION[V] ON D ALTITUDE	140max 120max 160max 50max 20max 20max 200typ(ACIN 100V, 20typ (ACIN 100V, 20typ (ACIN 100V, 4.99 - 6.00 (+V and -V 4.99 - 5.30 (+V ar Works over 105% 6.90 - 10.0 LED (Green) None AC3,000V 1minute, AC500V 1minute, -10 to +71°C (Req	/ 320max / 300max / 360max / 360max lo=100%) *Start-up tir /, lo=100%) *are simultaneously adjuster nd -V CURRENT1) of rated current and ro e. Cutoff current = 10m e. Cutoff current = 10m Cutoff current = 25mA juired Derating), 20 - 9	160max           150max           180max           120max           120max           150max           48max           me is 700ms typ for le           2d)           9.60 - 13.2 (+V and -           11.5 - 12.5 (+V ard -           11.5 - 12.5 (+V ard -           16.8 - 24.0           mA. DC500V 50MΩ           mA. DC500V 50MΩ           mD0%RH (Non conder	/ 240max / 320max / 300max / 360max / 3	120max 160max 150max 150max 150max 150max 150max 60max 180max 60max 13.2 - 16.5 ( 14.4 - 15.6 20.0 - 29.0 ure) ure) e)	/ 320max / 300max / 360max from turning off the input voltag +V and -V are simultaneously adjust 6 (+V and -V CURRENT1)	
ROTECTION IRCUIT AND THERS SOLATION	RIPPLE NOISE[mVp-p] TEMPERATURE REGULATION[mV] DRIFT[mV] START-UP TIME[ms] HOLD-UP TIME[ms] OUTPUT VOLTAGE ADJUSTMEN OUTPUT VOLTAGE ADJUSTMEN OVERVOLTAGE ADJUSTMEN OVERVOLTAGE PROTEC OPERATING INDICATI REMOTE ON/OFF INPUT-FG OUTPUT-FG OUTPUT-FG OPERATING TEMP.HUMID.AND STORAGE TEMP.HUMID.AND	-10 - 0'C *1 0 to +50'C *1 -10 - 0'C *1 0 to +50'C -10 to +50'C *2 IT RANGE[V] TEANGE[V] TECTION CTION[V] ON D ALTITUDE	140max 120max 160max 50max 60max 200typ(ACIN 100V, 20typ (ACIN 100V, 20typ (ACIN 100V, 4.99 - 6.00 (+V and -V 4.99 - 5.30 (+V and Works over 105% 6.90 - 10.0 LED (Green) None AC3.000V 1minute AC500V 1minute, -10 to +71°C (Reg -20 to +75°C, 20 -	/ 320max / 300max / 360max / 360max lo=100%) ★Start-up tir / lo=100%) ★Start-up tir / lo=100%) are simultaneously adjuster and -V CURRENT1) of rated current and re e. Cutoff current = 10m e. Cutoff current = 10m Cutoff current = 25mA uired Derating), 20 - 9 90%RH (Non condensi	160max           150max           180max           120max           120max           150max           48max           me is 700ms typ for le           ad)           9.60 - 13.2 (+V and -           11.5 - 12.5 (+V are -           11.5 - 12.5 (+V are -           income automatical           16.8 - 24.0           mA. DC500V 50MΩ           A, DC500V 50MΩ and	/ 240max / 320max / 300max / 360max / 360max / 360max ess than 1minute of applyi -V are simultaneously adjuster and -V CURRENT1) ly min (At Room Temperat min (At Room Temperatu sing) 3,000m (10,000fe 00feet) max	120max 160max 150max 150max 150max 150max 150max 60max 180max 60max 13.2 - 16.5 ( 14.4 - 15.6 20.0 - 29.0 ure) ure) e)	/ 320max / 300max / 360max from turning off the input voltag +V and -V are simultaneously adjust 6 (+V and -V CURRENT1)	
ROTECTION IRCUIT AND THERS SOLATION	RIPPLE NOISE[mVp-p] TEMPERATURE REGULATION[mV] DRIFT[mV] START-UP TIME[ms] HOLD-UP TIME[ms] OUTPUT VOLTAGE ADJUSTMEN OUTPUT VOLTAGE PROTEC OVERCURRENT PROT OVERVOLTAGE PROTEC OVERVOLTAGE PROTEC OPERATING INDICATI REMOTE ON/OFF INPUT-FG OUTPUT-FG OUTPUT-FG OPERATING TEMP.HUMID.AND STORAGE TEMP.HUMID.AND VIBRATION	-10 - 0'C *1 0 to +50'C *1 -10 - 0'C *1 0 to +50'C -10 to +50'C *2 IT RANGE[V] TEANGE[V] TECTION CTION[V] ON D ALTITUDE	140max 120max 160max 50max 60max 200typ (ACIN 100V, 20typ (ACIN 100V, 20typ (ACIN 100V, 4.99 - 5.30 (+V ar Works over 105% 6.90 - 10.0 LED (Green) None AC3.000V 1minute AC3.000V 1minute AC500V 1minute -10 to +71°C (Req -20 to +75°C, 20 - 10 - 55Hz, 19.6m/	/ 320max / 300max / 360max / 360max lo=100%) *Start-up tir /, lo=100%) are simultaneously adjusted d -V CURRENT1) of rated current and re e. Cutoff current = 10m Cutoff current = 25mA uired Derating), 20 - 9 90%RH (Non conden: /s² (2G), 3minutes peri	160max           150max           180max           120max           120max           150max           48max           me is 700ms typ for le           add           11.5 - 12.5 (+V and -           11.5 - 12.5 (+V and -           16.8 - 24.0           mA. DC500V 50MΩ           mA. DC500V 50MΩ           mA. DC500V 50MΩ           mA. DC500V 50MΩ           mo%RH (Non conder m3ng) 9.000m (30.00           r030%RH (Non conder m3ng) 9.000m (30.00	/ 240max / 320max / 300max / 360max / 3	120max 160max 150max 150max 150max 150max 150max 60max 180max 60max 13.2 - 16.5 ( 14.4 - 15.6 20.0 - 29.0 ure) ure) e)	/ 320max / 300max / 360max from turning off the input voltag +V and -V are simultaneously adjust 6 (+V and -V CURRENT1)	
ROTECTION IRCUIT AND THERS SOLATION	RIPPLE NOISE[mVp-p] TEMPERATURE REGULATION[mV] DRIFT[mV] START-UP TIME[ms] OUTPUT VOLTAGE ADJUSTMEN OUTPUT VOLTAGE ADJUSTMEN OUTPUT VOLTAGE PROTEC OVERCURRENT PROT OVERVOLTAGE PROTEC OPERATING INDICATI INPUT-OUTPUT INPUT-FG OUTPUT-FG OUTPUT-FG OUTPUT-FG OUTPUT-FG OPERATING TEMP,HUMID.AND STORAGE TEMP,HUMID.AND VIBRATION IMPACT	-10 - 0'C *1 0 to +50'C *1 -10 - 0'C *1 0 to +50'C -10 to +50'C *2 IT RANGE[V] TTING[V] FECTION CTION[V] ON D ALTITUDE D ALTITUDE	140max 120max 160max 50max 60max 200typ (ACIN 100V, 20typ (ACIN 100V, 20typ (ACIN 100V, 4.99 - 5.30 (+V ar Works over 105% 6.90 - 10.0 LED (Green) None AC3.000V 1minute AC2.000V 1minute AC2.000V 1minute AC500V 1minute, -10 to +75°C, 20 -20 to +75°C, 20 -10 - 55Hz, 19.6m/ 196.1m/s <sup>2</sup> (20G),	/ 320max / 300max / 360max / 360max / 10=100%) *Start-up tir / Io=100%) *Output / Io=100%) / are simultaneously adjusted d -V CURRENT1) of rated current and re e. Cutoff current = 10m e. Cutoff current = 10m Cutoff current = 25mA juired Derating), 20 - 9 90%RH (Non conden: /s² (2G), 3minutes peri 11ms, once each X, Y	160max           150max           180max           120max           120max           150max           48max           me is 700ms typ for le           id)         9.60 - 13.2 (+V and -11.5 - 12.5 (+V ard -11.5 - 12.5 (+V ard -16.8 - 24.0)           mA. DC500V 50MΩ           mA. DC500V 50MΩ           mA. DC500V 50MΩ           mB0%RH (Non conder sing) 9.000m (30.00)           iod. 60minutes each           ✓ and Z axis	/ 240max / 320max / 300max / 360max / 360max / 360max ess than 1minute of applyi -V are simultaneously adjusted and -V CURRENT1) ly min (At Room Temperatunes in (At Room Temperatunes in (At Room Temperatunes in (At Room Temperatunes) along X, Y and Z axis	120max 160max 150max 150max 150max 150max 150max 60max 180max 60max 13.2 - 16.5 ( 14.4 - 15.6 20.0 - 29.0 ure) ure) e)	/ 320max / 300max / 360max from turning off the input voltag +V and -V are simultaneously adjust 6 (+V and -V CURRENT1)	
ROTECTION IRCUIT AND THERS SOLATION NVIRONMENT	RIPPLE NOISE[mVp-p] TEMPERATURE REGULATION[mV] DRIFT[mV] START-UP TIME[ms] HOLD-UP TIME[ms] OUTPUT VOLTAGE ADJUSTMEN OUTPUT VOLTAGE ADJUSTMEN OVERCURRENT PROT OVERCURRENT PROT OVERCURRENT PROT OVERVOLTAGE PROTEC OPERATING INDICATI REMOTE ON/OFF INPUT-FG OUTPUT-FG OUTPUT-FG OUTPUT-FG OUTPUT-FG OUTPUT-FG OPERATING TEMP.,HUMID.AND STORAGE TEMP.,HUMID.AND STORAGE TEMP.,HUMID.AND VIBRATION IMPACT AGENCY APPROVALS (At onl	-10 - 0'C *1 0 to +50'C *1 -10 - 0'C *1 0 to +50'C -10 to +50'C *2 IT RANGE[V] TTING[V] FECTION CTION[V] ON D ALTITUDE D ALTITUDE	140max 120max 160max 50max 60max 20max 20typ (ACIN 100V, 20typ (ACIN 100V, 20typ (ACIN 100V, 4.99 - 5.30 (+V ar Works over 105% 6.90 - 10.0 LED (Green) None AC3,000V 1minute AC2,000V 1minute AC2,000V 1minute -10 to +71°C (Req -20 to +75°C, 20 - 10 - 55Hz, 19.6m/ 196.1m/s <sup>2</sup> (20G), UL60950-1, C-UL0	/ 320max / 300max / 360max / 360max lo=100%) *Start-up tir / lo=100%) 'are simultaneously adjusted d -V CURRENT1) of rated current and re e, Cutoff current = 10m e, Cutoff current = 10m Cutoff current = 25mA juired Derating), 20 - 9 90%RH (Non condem: 's <sup>2</sup> (2G), 3minutes peri 11ms, once each X, Y (CSA60950-1), EN609	160max           150max           180max           120max           120max           150max           150max           150max           150max           48max           me is 700ms typ for legend           id)         9.60 - 13.2 (+V and -11.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5 - 12.5	/ 240max / 320max / 300max / 360max / 360max ess than 1minute of applyi -V are simultaneously adjusted and -V CURRENT1) ly min (At Room Temperature min (At Room Temperature in (At Room Temperature in (At Room Temperature) 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 10.000fe 1	120max 160max 150max 150max 150max 150max 150max 60max 180max 60max 13.2 - 16.5 ( 14.4 - 15.6 20.0 - 29.0 ure) ure) e)	/ 320max / 300max / 360max from turning off the input voltag +V and -V are simultaneously adjust 6 (+V and -V CURRENT1)	
ROTECTION IRCUIT AND ITHERS SOLATION NVIRONMENT AFETY AND IOISE	RIPPLE NOISE[mVp-p] TEMPERATURE REGULATION[mV] DRIFT[mV] START-UP TIME[ms] HOLD-UP TIME[ms] OUTPUT VOLTAGE ADJUSTMEN OUTPUT VOLTAGE ADJUSTMEN OVERCURRENT PROT OVERVOLTAGE PROTEC OPERATING INDICATI REMOTE ON/OFF INPUT-FG OUTPUT-FG OUTPUT-FG OUTPUT-FG OUTPUT-FG OPERATING TEMP.HUMID.AND STORAGE TEMP.HUMID.AND STORAGE TEMP.HUMID.AND STORAGE TEMP.HUMID.AND CONDUCTED NOISE	-10 - 0'C *1 0 to +50'C *1 -10 - 0'C *1 -10 - 0'C *1 0 to +50'C -10 to +50'C *2 *2 *2 *2 *1 TRANGE[V] TECTION CTION[V] O N D ALTITUDE D ALTITUDE IV AC input)	140max 120max 160max 50max 20max 200typ(ACIN 100V, 20typ (ACIN 100V, 20typ (ACIN 100V, 20typ (ACIN 100V, 4.99 - 6.00 (+V and -V 4.99 - 5.30 (+V ar Works over 105% 6.90 - 10.0 LED (Green) None AC3.000V 1minute, AC3.000V 1minute, AC500V 1minute, -10 to +71°C (Req -20 to +75°C, 20 - 10 - 55Hz, 19.6m/ 196.1m/s <sup>2</sup> (20G), UL60950-1, C-ULC Complies with FC0	/ 320max / 300max / 360max / 360max / 10=100%) *Start-up tir / Io=100%) *Output / Io=100%) / are simultaneously adjusted d -V CURRENT1) of rated current and re e. Cutoff current = 10m e. Cutoff current = 10m Cutoff current = 25mA juired Derating), 20 - 9 90%RH (Non conden: /s² (2G), 3minutes peri 11ms, once each X, Y	160max           150max           180max           120max           120max           150max           150max           150max           150max           48max           me is 700ms typ for lefter           11.5 - 12.5 (+V and -1.5 - 1.2 - 5 (+V and -1.5 - 1.5 (+V and -1.5 (+V and -1.5 - 1.5 (+V and -1.5	/ 240max / 320max / 300max / 360max / 360max ass than 1minute of applyi -V are simultaneously adjusted and -V CURRENT1) /y min (At Room Temperatur min (At Room Temperatur in (At Room Temperatur in (At Room Temperatur in (At Room Temperatur in (At Room Temperatur ising) 3.000m (10.000fe 0/feet) max along X, Y and Z axis applies with DEN-AN I55011-B, EN55022-B	120max 160max 150max 150max 150max 150max 150max 60max 180max 60max 13.2 - 16.5 ( 14.4 - 15.6 20.0 - 29.0 ure) ure) e)	/ 320max / 300max / 360max from turning off the input voltag +V and -V are simultaneously adjust 5 (+V and -V CURRENT1)	
ROTECTION IRCUIT AND IRCUIT AND ITHERS SOLATION NVIRONMENT AFETY AND IOISE EQULATIONS	RIPPLE NOISE[mVp-p] TEMPERATURE REGULATION[mV] DRIFT[mV] START-UP TIME[ms] HOLD-UP TIME[ms] OUTPUT VOLTAGE ADJUSTMEN OUTPUT VOLTAGE ADJUSTMEN OVERVOLTAGE PROTEC OPERATING INDICATI REMOTE ON/OFF INPUT-FG OUTPUT-FG OUTPUT-FG OPERATING TEMP.,HUMID.AND STORAGE TEMP.,HUMID.AND STORAGE TEMP.,HUMID.AND VIBRATION IMPACT AGENCY APPROVALS (At onl CONDUCTED NOISE	-10 - 0'C *1 0 to +50'C *1 -10 - 0'C *1 -10 - 0'C *1 0 to +50'C -10 to +50'C *2 *2 *2 *2 *1 TRANGE[V] TECTION CTION[V] O N D ALTITUDE D ALTITUDE IV AC input)	140max 120max 160max 50max 60max 200typ(ACIN 100V, 20typ (ACIN 100V, 20typ (ACIN 100V, 20typ (ACIN 100V, 4.99 - 6.00 (+V and -V 4.99 - 5.30 (+V ard Works over 105% 6.90 - 10.0 LED (Green) None AC3.000V 1minute, AC3.00V 1minute, -10 to +71°C (Reg -20 to +75°C, 20 - 10 - 55Hz, 19.6m/ 196.1m/s <sup>2</sup> (20G), UL60950-1, C-UL Complies with FCC	/ 320max / 300max / 360max / 360max lo=100%) *Start-up tir /, lo=100%) are simultaneously adjuster ad -V CURRENT1) of rated current and re e. Cutoff current = 10m cutoff current = 10m Cutoff current = 25mA juired Derating), 20 - 9 90%RH (Non condem: 's <sup>2</sup> (2G), 3minutes peri 11ms, once each X, Y (CSA60950-1), EN609 C Part15 classB, VCC 261000-3-2 (Not built-ir	160max           150max           180max           120max           120max           150max           150max           150max           150max           48max           me is 700ms typ for le           ill.5 - 12.2 (+V and -           11.5 - 12.5 (+V and -           11.5 - 12.5 (+V and -           inc. DC500V 50MΩ           nA, DC500V 50MΩ           mA, DC500V 50MΩ           mod, AC500V 50MΩ           mod, OC500V 50MΩ           isig) 9.000m (30.00           iod, 60minutes each           (and Z axis)           550-1, EN50178 Com           51-8, CISPR22-8, EN           n to active filter *7)	/ 240max / 320max / 300max / 360max / 360max ass than 1minute of applyi -V are simultaneously adjusted and -V CURRENT1) /y min (At Room Temperatur min (At Room Temperatur in (At Room Temperatur in (At Room Temperatur in (At Room Temperatur in (At Room Temperatur ising) 3.000m (10.000fe 0/feet) max along X, Y and Z axis applies with DEN-AN I55011-B, EN55022-B	120max 160max 150max 150max 150max 150max 180max 60max 180max 10) 13.2 - 16.5 ( 14.4 - 15.6 20.0 - 29.0 ure) ure) e) et) max	/ 320max / 300max / 360max from turning off the input voltag +V and -V are simultaneously adjust 6 (+V and -V CURRENT1) 0	
ROTECTION IRCUIT AND THERS SOLATION INVIRONMENT AFETY AND OISE	RIPPLE NOISE[mVp-p] TEMPERATURE REGULATION[mV] DRIFT[mV] START-UP TIME[ms] HOLD-UP TIME[ms] OUTPUT VOLTAGE ADJUSTMEN OUTPUT VOLTAGE ADJUSTMEN OVERCURRENT PROTO OVERVOLTAGE PROTEC OPERATING INDICATI REMOTE ON/OFF INPUT-FG OUTPUT-FG OUTPUT-FG OUTPUT-FG OPERATING TEMP,HUMID.AND STORAGE TEMP,HUMID.AND STORAGE TEMP,HUMID.AND VIBRATION IMPACT AGENCY APPROVALS (At onl CONDUCTED NOISE HARMONIC ATTENUAR	-10 - 0'C *1 0 to +50'C *1 -10 - 0'C *1 -10 - 0'C *1 0 to +50'C -10 to +50'C *2 *2 *2 *2 *1 TRANGE[V] TECTION CTION[V] O N D ALTITUDE D ALTITUDE IV AC input)	140max 120max 160max 50max 60max 200typ(ACIN 100V, 20typ (ACIN 100V, 20typ (ACIN 100V, 20typ (ACIN 100V, 4.99 - 6.00 (+V and -V 4.99 - 5.30 (+V ard Works over 105% 6.90 - 10.0 LED (Green) None AC3.000V 1minute, AC3.00V 1minute, -10 to +71°C (Reg -20 to +75°C, 20 - 10 - 55Hz, 19.6m/ 196.1m/s <sup>2</sup> (20G), UL60950-1, C-UL Complies with FCC	/ 320max / 300max / 360max / 360max lo=100%) *Start-up tir /, lo=100%) are simultaneously adjuster ad -V CURRENT1) of rated current and re e. Cutoff current = 10m cutoff current = 10m Cutoff current = 25mA juired Derating), 20 - 9 90%RH (Non condem: 's <sup>2</sup> (2G), 3minutes peri 11ms, once each X, Y (CSA60950-1), EN609 C Part15 classB, VCC 261000-3-2 (Not built-ir	160max           150max           180max           120max           120max           150max           150max           150max           150max           48max           me is 700ms typ for le           ill.5 - 12.2 (+V and -           11.5 - 12.5 (+V and -           11.5 - 12.5 (+V and -           inc. DC500V 50MΩ           nA, DC500V 50MΩ           mA, DC500V 50MΩ           mod, AC500V 50MΩ           mod, OC500V 50MΩ           isig) 9.000m (30.00           iod, 60minutes each           (and Z axis)           550-1, EN50178 Com           51-8, CISPR22-8, EN           n to active filter *7)	/ 240max / 320max / 300max / 360max / 300max / 3000m (10.000fe / 00feet) max / 300max /	120max 160max 150max 150max 150max 150max 180max 60max 180max 10) 13.2 - 16.5 ( 14.4 - 15.6 20.0 - 29.0 ure) ure) e) et) max	/ 320max / 300max / 360max from turning off the input volta +V and -V are simultaneously adjust 6 (+V and -V CURRENT1) 0	

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

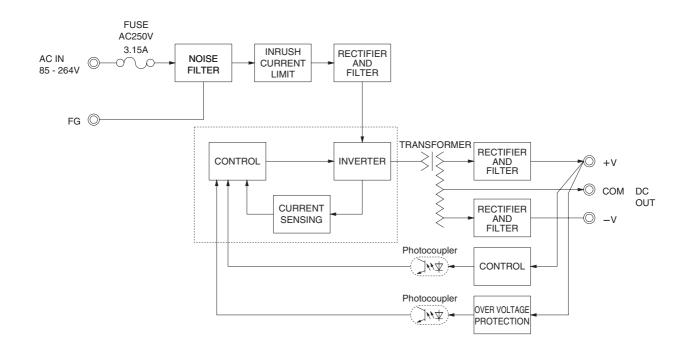
PBA/PBW-28

PBA/P

- \*6 ±5,±12,±15 can be used as +10,+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.

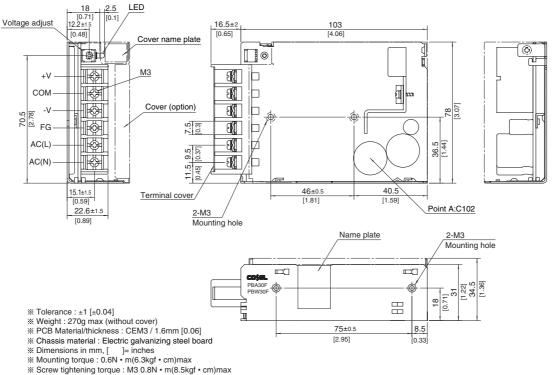
- \* 11 Please contact us about dynamic load and input response.
  \* 12 Please contact us about class C.
  \* Parallel operation with other model is not possible.
  \* Derating is required when operated with cover.
  \* A sound may occur from power supply at peak loading.

## PBW30F | CO\$EL

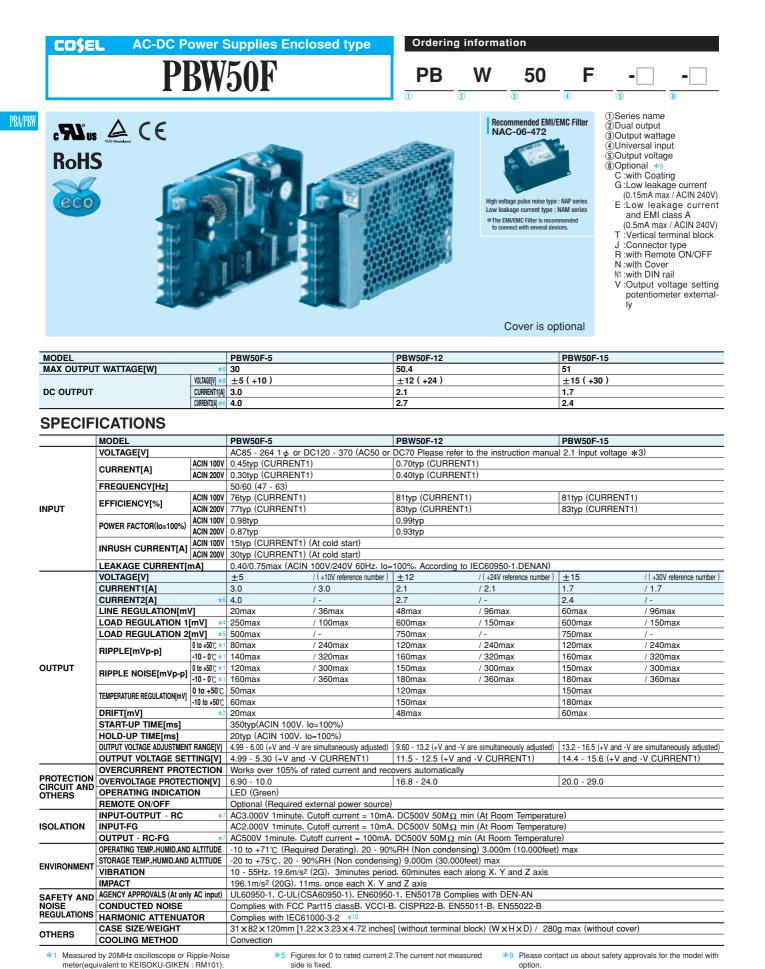


## **External view**

% 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.



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



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

Figures for 0 to rated current 1.The current not measured side is fixed

**PBA/PBW-30** 

input/output and FG. \*8 ±5,±12,±15 can be used as +10,+24 and +30.

The sum of +power -power must be less than output power

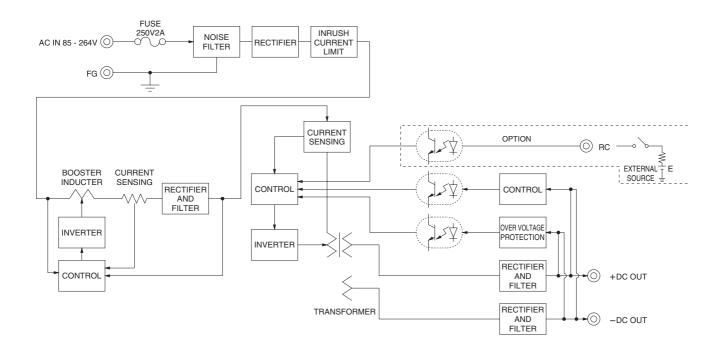
RC is applied to remote ON/OFF option. RC is isolated with

\*10 Please contact us about class C. Parallel operation with other model is not possible

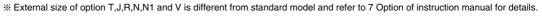
Derating is required when operated with cover

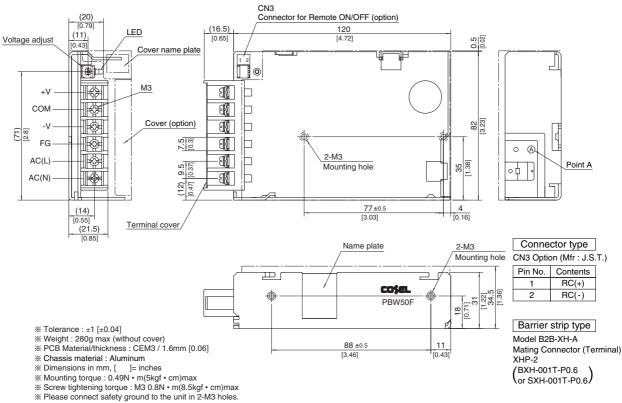
A sound may occur from power supply at peak loading.

## PBW50F | CO\$EL



External view





PBA/PBW-31