



















■ Features

- · 3"×2" compact size
- · 120W convention, 150W peak (10sec.)
- Medical safety approved (2 x MOPP) accroding to ANSI/AAMI ES60601-1 and IEC/EN60601-1
- · Suitable for BF application with appropriate system consideration
- · EMI for both Class I & Class II configuration
- -30~+85°C wide range operating temperature
- · No load power consumption<0.3W
- · Extremely low leakage current
- · Protections: Short circuit / Overload / Over voltage / Over temperature
- Operating altitude up to 4000 meters (Note.6)
- · 3 years warranty

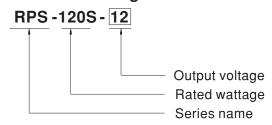
# Applications

- · Oral irrigator
- Hemodialysis machine
- Medical monitors
- Sleep apnea devices
- · Pumps machine

# ■ Description

RPS-120S is a 120W highly reliable green PCB type medical power supply with a high power density on a 3" by 2" footprint. It accepts  $80\sim264$ VAC input and offers various models with the output voltages between 12V and 48V. The working efficiency is up to 94% and the extremely low no load power consumption is down below 0.3W. RPS-120S is able to be used for both Class I (with FG) & Class II (no FG) system design. The extremely low leakage current is less than  $150\mu$  A. In addition, it conforms to the international medical regulations (2\*MOPP) and EMC EN55011, perfectly fitting all kinds of BF rated "patient contact" medical system equipment.

## Model Encoding





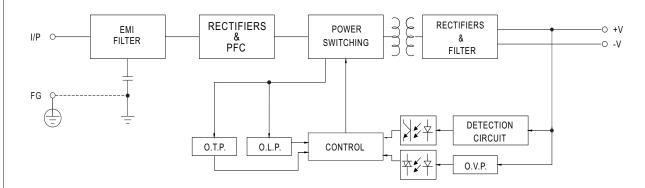
#### SPECIFICATION

			RPS-120S-12	RPS-120S-15	RPS-120S-24	RPS-120S-27	RPS-120S-48	
	DC VOLTAGE		12V	15V	24V	27V	48V	
		Peak(10 sec.)	11.8A	9.5A	6.25A	5.55A	3.125A	
	CURRENT	Convection	9.5A	7.6A	5A	4.44A	2.5A	
ОИТРИТ	RATED POWER	Peak(10 sec.)	141.6W	142.5W	150W	149.8W	150W	
		Convection	114W	114W	120W	119.9W	120W	
	RIPPLE & NOIS	E (max.) Note.2	100mVp-p	120mVp-p	150mVp-p	150mVp-p	200mVp-p	
	VOLTAGE ADJ. RANGE		11.4~12.6V	14.3~15.8V	22.8~25.2V	25.6 ~ 28.4V	45.6 ~50.4V	
	VOLTAGE TOLERANCE Note.3		±2.0%	±2.0%	±1.0%	±1.0%	±1.0%	
	LINE REGULATION		±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION		±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	SETUP, RISE TIME		600ms, 30ms/230VAC	600ms, 30ms	/115VAC at full load		1.11	
	HOLD UP TIME (Typ.)		15ms/230VAC 15ms/115VAC at full load					
	VOLTAGE RANGE Note.4							
	FREQUENCY RANGE							
			47 ~ 63Hz PF>0.94/230VAC PF>0.98/115VAC at full load					
	POWER FACTOR		PF>0.94/230VAC 91%	92%	93%	94%	02.50/	
INPUT	EFFICIENCY (Typ.)			1	93%	94%	93.5%	
	AC CURRENT (Typ.)			1A/230VAC	2201/40			
	INRUSH CURRENT (Typ.)				230VAC	100 11 10 6		
	LEAKAGE CURRENT(max.) Note.5							
	OVERLOAD		130~160% rated outp	•				
				1	automatically after fault of			
PROTECTION	OVER VOLTA	GE	13.2 ~ 15.6V	16.5 ~ 19.5V	26.4 ~ 31.2V	29.7 ~ 35V	52.8 ~ 62.4V	
	OVER VULIA	GE	Protection type : Shut	down o/p voltage,	re-power on to recover			
	OVER TEMPERATURE		,,	, , ,	ecovers automatically aft	er temperature goes do	wn	
	WORKING TEMP.		-30 ~ +85°C (Refer to "Derating Curve")					
	WORKING HUMIDITY		20 ~ 90% RH non-condensing					
ENVIRONMENT	STORAGE TEMP.		-40 ~ +85°C					
	TEMP. COEFFICIENT		±0.03%/°C (0~50°C)					
				,				
	VIBRATION		10 ~ 500Hz, 2G 10mi	·	each along X, Y, Z axes			
		TITUDE Note.6		·	each along X, Y, Z axes			
	OPERATING AL	TITUDE Note.6	4000 meters IEC60601-1, TUV EN	n./1cycle, 60min.	TC 004, UL ANSI/AAM			
	OPERATING AL	TITUDE Note.6	4000 meters IEC60601-1, TUV EN CAN/CSA-C22.2 No.	n./1cycle, 60min. 160601-1, EAC TP 60601-1:14 - Edit	TC 004, UL ANSI/AAMion 3 approved; Design	n refer to EN60335-		
	OPERATING AL SAFETY STA ISOLATION R	TITUDE Note.6  NDARDS RESISTANCE	4000 meters IEC60601-1, TUV EN CAN/CSA-C22.2 No. Primary-Secondary:	n./1cycle, 60min. 160601-1, EAC TP 60601-1:14 - Edit 2xMOPP, Primary	TC 004, UL ANSI / AAMion 3 approved; Design	n refer to EN60335-		
	OPERATING AL SAFETY STA ISOLATION R WITHSTAND	TITUDE Note.6 NDARDS RESISTANCE VOLTAGE	4000 meters IEC60601-1, TUV ENCAN/CSA-C22.2 No. Primary-Secondary: I/P-O/P:4KVAC I/P-	n./1cycle, 60min. 160601-1, EAC TP 60601-1:14 - Edit 2xMOPP, Primary -FG:2KVAC O/P-	TC 004, UL ANSI / AAM ion 3 approved; Design -Earth:1xMOPP, Second FG:1.5KVAC	n refer to EN60335- dary-Earth:1xMOPP		
	OPERATING AL SAFETY STA ISOLATION R WITHSTAND	TITUDE Note.6 NDARDS RESISTANCE VOLTAGE	4000 meters IEC60601-1, TUV EN CAN/CSA-C22.2 No. Primary-Secondary: I/P-O/P:4KVAC I/P-I/P-O/P, I/P-FG, O/P-	n./1cycle, 60min. 160601-1, EAC TP 60601-1:14 - Edit 2xMOPP, Primary FG:2KVAC O/P- FG: 100M Ohms /	TC 004, UL ANSI / AAM ion 3 approved; Design -Earth:1xMOPP, Second FG:1.5KVAC 500VDC / 25°C / 70% RN	n refer to EN60335- dary-Earth:1xMOPP	1 (By request)	
	OPERATING AL SAFETY STA ISOLATION R WITHSTAND	TITUDE Note.6 NDARDS RESISTANCE VOLTAGE	4000 meters IEC60601-1, TUV EN CAN/CSA-C22.2 No. Primary-Secondary: I/P-O/P:4KVAC I/P- I/P-O/P, I/P-FG, O/P- Parameter	n./1cycle, 60min.  160601-1, EAC TP 60601-1:14 - Edit 2xMOPP, Primary FG:2KVAC O/P- FG: 100M Ohms /	TC 004, UL ANSI / AAMion 3 approved; Design -Earth:1xMOPP, Second FG:1.5KVAC 500VDC / 25°C / 70% Ritandard	n refer to EN60335- dary-Earth:1xMOPP	1 (By request)	
	OPERATING AL SAFETY STA ISOLATION R WITHSTAND	TITUDE Note.6  NDARDS RESISTANCE  VOLTAGE RESISTANCE	4000 meters IEC60601-1, TUV EN CAN/CSA-C22.2 No. Primary-Secondary: I/P-O/P:4KVAC I/P-I/P-O/P, I/P-FG, O/P-	n./1cycle, 60min.  160601-1, EAC TP 60601-1:14 - Edit 2xMOPP, Primary FG:2KVAC O/P- FG: 100M Ohms / S	TC 004, UL ANSI / AAM ion 3 approved; Design -Earth:1xMOPP, Second FG:1.5KVAC 500VDC / 25°C / 70% RN	n refer to EN60335- dary-Earth:1xMOPP	1 (By request)	
	OPERATING AL SAFETY STA ISOLATION R WITHSTAND ISOLATION R	TITUDE Note.6  NDARDS RESISTANCE  VOLTAGE RESISTANCE	4000 meters IEC60601-1, TUV EN CAN/CSA-C22.2 No. Primary-Secondary: I/P-O/P:4KVAC I/P- I/P-O/P, I/P-FG, O/P- Parameter Conducted emission	n./1cycle, 60min.  160601-1, EAC TP 60601-1:14 - Edit 2xMOPP, Primary FG:2KVAC O/P- FG: 100M Ohms /  S E E	TC 004, UL ANSI / AAM ion 3 approved; Design -Earth: 1xMOPP, Second FG:1.5KVAC 500VDC / 25°C / 70% Ritandard N55011 (CISPR11)	n refer to EN60335- dary-Earth:1xMOPP	1 (By request)	
SAFETY &	OPERATING AL SAFETY STA ISOLATION R WITHSTAND ISOLATION R	TITUDE Note.6  NDARDS RESISTANCE  VOLTAGE RESISTANCE	4000 meters IEC60601-1, TUV EN CAN/CSA-C22.2 No. Primary-Secondary: I/P-O/P:4KVAC I/P- I/P-O/P, I/P-FG, O/P- Parameter Conducted emission Radiated emission Harmonic current Voltage flicker	n./1cycle, 60min.  160601-1, EAC TP 60601-1:14 - Edit 2xMOPP, Primary FG:2KVAC O/P- FG: 100M Ohms /	TC 004, UL ANSI / AAM ion 3 approved; Design -Earth:1xMOPP, Second FG:1.5KVAC 500VDC / 25°C / 70% Ritandard N55011 (CISPR11) N55011 (CISPR11)	refer to EN60335- dary-Earth:1xMOPP  H  Test Level / Class B Class I : Class	1 (By request)	
SAFETY &	OPERATING AL SAFETY STA ISOLATION R WITHSTAND ISOLATION R	TITUDE Note.6  NDARDS RESISTANCE  VOLTAGE RESISTANCE	4000 meters IEC60601-1, TUV EN CAN/CSA-C22.2 No. Primary-Secondary: I/P-O/P:4KVAC I/P-I/P-O/P, I/P-FG, O/P-Parameter Conducted emission Radiated emission Harmonic current Voltage flicker EN60601-1-2	n./1cycle, 60min.  160601-1, EAC TP 60601-1:14 - Edit 2xMOPP, Primary FG:2KVAC O/P- FG: 100M Ohms /  E E E E	TC 004, UL ANSI / AAM ion 3 approved; Design -Earth:1xMOPP, Second FG:1.5KVAC 500VDC / 25°C / 70% Rtandard N55011 (CISPR11) N55011 (CISPR11) N61000-3-2 N61000-3-3	refer to EN60335- dary-Earth:1xMOPP  Test Level / Class B Class I : Cla Class A	1 (By request)  Note  ass B , Class II : Class A	
SAFETY &	OPERATING AL SAFETY STA ISOLATION R WITHSTAND ISOLATION R	TITUDE Note.6  NDARDS RESISTANCE  VOLTAGE RESISTANCE	4000 meters IEC60601-1, TUV EN CAN/CSA-C22.2 No. Primary-Secondary: I/P-O/P:4KVAC I/P- I/P-O/P, I/P-FG, O/P- Parameter Conducted emission Radiated emission Harmonic current Voltage flicker	n./1cycle, 60min.  160601-1, EAC TP 60601-1:14 - Edit 2xMOPP, Primary FG:2KVAC O/P- FG: 100M Ohms /   E E E E	TC 004, UL ANSI / AAM ion 3 approved; Design -Earth: 1xMOPP, Second FG:1.5KVAC 500VDC / 25°C / 70% Rtandard N55011 (CISPR11) N55011 (CISPR11) N61000-3-2	Test Level / Class A  Test Level / Test Level / Test Level / Test Level /	1 (By request)  Note  ass B , Class II : Class A	
SAFETY &	OPERATING AL SAFETY STA ISOLATION R WITHSTAND ISOLATION R	TITUDE Note.6  NDARDS RESISTANCE  VOLTAGE RESISTANCE	4000 meters IEC60601-1, TUV EN CAN/CSA-C22.2 No. Primary-Secondary: I/P-O/P:4KVAC I/P-I/P-O/P, I/P-FG, O/P-Parameter Conducted emission Radiated emission Harmonic current Voltage flicker EN60601-1-2 Parameter ESD	n./1cycle, 60min.  160601-1, EAC TP 60601-1:14 - Edit 2xMOPP, Primary -FG:2KVAC O/PFG: 100M Ohms /  E E E E E E	TC 004, UL ANSI / AAM ion 3 approved; Design -Earth:1xMOPP, Second FG:1.5KVAC 500VDC / 25°C / 70% RN tandard N55011 (CISPR11) N55011 (CISPR11) N61000-3-2 N61000-3-3 tandard N61000-4-2	Test Level / Class A Test Level / Level 4, 15K	1 (By request)  Note  ass B , Class II : Class A	
SAFETY &	OPERATING AL SAFETY STA ISOLATION R WITHSTAND ISOLATION R	TITUDE Note.6  NDARDS RESISTANCE  VOLTAGE RESISTANCE	4000 meters IEC60601-1, TUV EN CAN/CSA-C22.2 No. Primary-Secondary: I/P-O/P:4KVAC I/P-I/P-O/P, I/P-FG, O/P-Parameter Conducted emission Radiated emission Harmonic current Voltage flicker EN60601-1-2 Parameter ESD RF field susceptibility	n./1cycle, 60min.  160601-1, EAC TP 60601-1:14 - Edit 2xMOPP, Primary FG:2KVAC O/P- FG: 100M Ohms /   E E E E E E E	TC 004, UL ANSI / AAM ion 3 approved; Design -Earth:1xMOPP, Second FG:1.5KVAC 500VDC / 25°C / 70% RH tandard N55011 (CISPR11) N55011 (CISPR11) N61000-3-2 N61000-3-3 tandard N61000-4-2 N61000-4-3	Test Level /	Note  Note  Vair; Level 4, 8KV contact  V/m( 80MHz~2.7GHz )	
SAFETY &	OPERATING AL SAFETY STA ISOLATION R WITHSTAND ISOLATION R	TITUDE Note.6 NDARDS RESISTANCE VOLTAGE RESISTANCE	4000 meters IEC60601-1, TUV EN CAN/CSA-C22.2 No. Primary-Secondary: I/P-O/P:4KVAC I/P-I/P-O/P, I/P-FG, O/P-Parameter Conducted emission Radiated emission Harmonic current Voltage flicker EN60601-1-2 Parameter ESD RF field susceptibility EFT bursts	n./1cycle, 60min.  160601-1, EAC TP 60601-1:14 - Edit 2xMOPP, Primary FG:2KVAC O/P- FG: 100M Ohms /   E  E  E  E  E  E  E	TC 004, UL ANSI / AAM ion 3 approved; Design -Earth:1xMOPP, Second FG:1.5KVAC 500VDC / 25°C / 70% Ritandard N55011 (CISPR11) N55011 (CISPR11) N61000-3-2 N61000-3-3 tandard N61000-4-2 N61000-4-3 N61000-4-4	Test Level /  Class B  Class I : Cla  Class A   Test Level /  Level 4, 15K\ Level 3, 10V  Table 9, 9~2 Level 3, 2KV	Note  Solution State of the sta	
SAFETY &	OPERATING AL SAFETY STA ISOLATION F WITHSTAND ISOLATION F	TITUDE Note.6 NDARDS RESISTANCE VOLTAGE RESISTANCE	4000 meters IEC60601-1, TUV EN CAN/CSA-C22.2 No. Primary-Secondary: I/P-O/P:4KVAC I/P-I/P-O/P, I/P-FG, O/P-Parameter Conducted emission Harmonic current Voltage flicker EN60601-1-2 Parameter ESD RF field susceptibility EFT bursts Surge susceptibility	n./1cycle, 60min.  160601-1, EAC TP 60601-1:14 - Edit 2xMOPP, Primary FG:2KVAC O/P- FG: 100M Ohms /   E  E  E  E  E  E  E  E	TC 004, UL ANSI / AAM ion 3 approved; Design -Earth:1xMOPP, Second FG:1.5KVAC 500VDC / 25°C / 70% RH tandard N55011 (CISPR11) N55011 (CISPR11) N61000-3-2 N61000-3-3 tandard N61000-4-2 N61000-4-3	Test Level / Level 4, 15K	Note  Note  Vair; Level 4, 8KV contact  V/m( 80MHz~2.7GHz )	
SAFETY &	OPERATING AL SAFETY STA ISOLATION F WITHSTAND ISOLATION F	TITUDE Note.6 NDARDS RESISTANCE VOLTAGE RESISTANCE	4000 meters IEC60601-1, TUV EN CAN/CSA-C22.2 No. Primary-Secondary: I/P-O/P:4KVAC I/P-I/P-O/P, I/P-FG, O/P-Parameter Conducted emission Radiated emission Harmonic current Voltage flicker EN60601-1-2 Parameter ESD RF field susceptibility EFT bursts	n./1cycle, 60min.  160601-1, EAC TP 60601-1:14 - Edit 2xMOPP, Primary FG:2KVAC O/P- FG: 100M Ohms /    E  E  E  E  E  E  E  E  E  E	TC 004, UL ANSI / AAM ion 3 approved; Design -Earth:1xMOPP, Second FG:1.5KVAC 500VDC / 25°C / 70% Ritandard N55011 (CISPR11) N55011 (CISPR11) N61000-3-2 N61000-3-3 tandard N61000-4-2 N61000-4-3 N61000-4-4 N61000-4-5	Test Level /  Class B  Class I : Cla  Class A   Test Level /  Level 4, 15K\ Level 3, 10V  Table 9, 9~2 Level 3, 2KV	1 (By request)  Note  Sass B , Class II : Class A  Note  Vair ; Level 4, 8KV contact  Vm( 80MHz~2.7GHz )  8V/m( 385MHz~5.78GHz )	
SAFETY &	OPERATING AL SAFETY STA ISOLATION F WITHSTAND ISOLATION F	TITUDE Note.6 NDARDS RESISTANCE VOLTAGE RESISTANCE	4000 meters IEC60601-1, TUV EN CAN/CSA-C22.2 No. Primary-Secondary: I/P-O/P:4KVAC I/P-I/P-O/P, I/P-FG, O/P-Parameter Conducted emission Radiated emission Harmonic current Voltage flicker EN60601-1-2 Parameter ESD RF field susceptibility EFT bursts Surge susceptibility Conducted susceptibility Magnetic field immunity	n./1cycle, 60min.  160601-1, EAC TP 60601-1:14 - Edit 2xMOPP, Primary -FG:2KVAC O/PFG: 100M Ohms /	TC 004, UL ANSI / AAM ion 3 approved; Design -Earth:1xMOPP, Second FG:1.5KVAC 500VDC / 25°C / 70% RH tandard N55011 (CISPR11) N55011 (CISPR11) N61000-3-2 N61000-3-3 tandard N61000-4-3 N61000-4-3 N61000-4-5 N61000-4-6 N61000-4-8	Test Level /  Class B  Class I : Cla  Class A   Test Level /  Level 4, 15K\ Level 3, 10V  Table 9, 9~2  Level 3, 2KV  Level 4, 4KV/  Level 4, 30A/  95% dip 1 peri	Note  Note  I Air; Level 4, 8KV contact  I May (1980)  Note  I Air; Level 4, 8KV contact  I May (1980)  Note  I Line-FG; 2KV/Line-Line  Mods, 30% dip 25 periods,	
SAFETY &	OPERATING ALL SAFETY STA ISOLATION R WITHSTAND ISOLATION F EMC EMISS	TITUDE Note.6 NDARDS RESISTANCE VOLTAGE RESISTANCE	4000 meters IEC60601-1, TUV EN CAN/CSA-C22.2 No. Primary-Secondary: I/P-O/P:4KVAC I/P- I/P-O/P, I/P-FG, O/P- Parameter Conducted emission Harmonic current Voltage flicker EN60601-1-2 Parameter ESD RF field susceptibility EFT bursts Surge susceptibility Conducted susceptibility Magnetic field immunity Voltage dip, interruption	n./1cycle, 60min.  160601-1, EAC TP 60601-1:14 - Edit 2xMOPP, Primary FG:2KVAC O/P- FG: 100M Ohms /    E  E  E  E  E  E  E  E  E  E  E  E	TC 004, UL ANSI / AAM ion 3 approved; Design -Earth:1xMOPP, Second FG:1.5KVAC 500VDC / 25°C / 70% Ritandard N55011 (CISPR11) N55011 (CISPR11) N61000-3-2 N61000-3-3  tandard N61000-4-2 N61000-4-5 N61000-4-6 N61000-4-8 N61000-4-8 N61000-4-1	Test Level /  Class B  Class I : Cla  Class A   Test Level /  Level 4, 15K\ Level 3, 10V  Table 9, 9~2  Level 3, 2KV  Level 4, 4KV/  Level 4, 30A/  95% dip 1 peri	1 (By request)  Note  Note  Vair; Level 4, 8KV contact  Vm( 80MHz~2.7GHz )  8V/m( 385MHz~5.78GHz )	
SAFETY & EMC Note 7)	OPERATING ALL SAFETY STA ISOLATION R WITHSTAND ISOLATION F EMC EMISS	TITUDE Note.6 NDARDS RESISTANCE VOLTAGE RESISTANCE ION	4000 meters IEC60601-1, TUV EN CAN/CSA-C22.2 No. Primary-Secondary: I/P-O/P:4KVAC I/P-I/P-O/P, I/P-FG, O/P-Parameter Conducted emission Harmonic current Voltage flicker EN60601-1-2 Parameter ESD RF field susceptibility EFT bursts Surge susceptibility Conducted susceptibility Voltage dip, interruption 468Khrs min. MIL-	n./1cycle, 60min.  160601-1, EAC TP 60601-1:14 - Edit 2xMOPP, Primary FG:2KVAC O/P- FG: 100M Ohms /	TC 004, UL ANSI / AAM ion 3 approved; Design -Earth:1xMOPP, Second FG:1.5KVAC 500VDC / 25°C / 70% Ritandard N55011 (CISPR11) N55011 (CISPR11) N61000-3-2 N61000-3-3  tandard N61000-4-2 N61000-4-5 N61000-4-6 N61000-4-8 N61000-4-8 N61000-4-1	Test Level /  Class B  Class I : Cla  Class A   Test Level /  Level 4, 15K\ Level 3, 10V  Table 9, 9~2  Level 3, 2KV  Level 4, 4KV/  Level 4, 30A/  95% dip 1 peri	Note  Note  I Air; Level 4, 8KV contact  I May (1980)  Note  I Air; Level 4, 8KV contact  I May (1980)  Note  I Line-FG; 2KV/Line-Line  Mods, 30% dip 25 periods,	
SAFETY & EMC Note 7)	OPERATING ALL SAFETY STA ISOLATION R WITHSTAND ISOLATION F EMC EMISS EMC IMMUN MTBF DIMENSION	TITUDE Note.6 NDARDS RESISTANCE VOLTAGE RESISTANCE ION	4000 meters IEC60601-1, TUV EN CAN/CSA-C22.2 No. Primary-Secondary: I/P-O/P:4KVAC I/P-I/P-O/P, I/P-FG, O/P-Parameter Conducted emission Radiated emission Harmonic current Voltage flicker EN60601-1-2 Parameter ESD RF field susceptibility EFT bursts Surge susceptibility Conducted susceptibility Magnetic field immunity Voltage dip, interruption 468Khrs min. MIL-76.2*50.8*28mm or 3	n./1cycle, 60min.  160601-1, EAC TP 60601-1:14 - Edit 2xMOPP, Primary FG:2KVAC O/P- FG: 100M Ohms /	TC 004, UL ANSI / AAM ion 3 approved; Design -Earth:1xMOPP, Second FG:1.5KVAC 500VDC / 25°C / 70% Ritandard N55011 (CISPR11) N55011 (CISPR11) N61000-3-2 N61000-3-3  tandard N61000-4-2 N61000-4-5 N61000-4-6 N61000-4-8 N61000-4-8 N61000-4-1	Test Level /  Class B  Class I : Cla  Class A   Test Level /  Level 4, 15K\ Level 3, 10V  Table 9, 9~2  Level 3, 2KV  Level 4, 4KV/  Level 4, 30A/  95% dip 1 peri	Note  Note  I Air; Level 4, 8KV contact  I May (100 MHz~2.7GHz)  8V/m( 385MHz~5.78GHz)  Line-FG; 2KV/Line-Line  mods, 30% dip 25 periods,	
SAFETY & EMC Note 7)	OPERATING ALL SAFETY STA ISOLATION F WITHSTAND ISOLATION F EMC EMISS EMC IMMUN MTBF DIMENSION PACKING	TITUDE Note.6 NDARDS RESISTANCE VOLTAGE RESISTANCE ION	4000 meters IEC60601-1, TUV EN CAN/CSA-C22.2 No. Primary-Secondary: I/P-O/P:4KVAC I/P-I/P-O/P, I/P-FG, O/P-Parameter Conducted emission Radiated emission Harmonic current Voltage flicker EN60601-1-2 Parameter ESD RF field susceptibility EFT bursts Surge susceptibility Conducted susceptibility Magnetic field immunity Voltage dip, interruption 468Khrs min. MIL-76.2*50.8*28mm or 3 0.13Kg; 100pcs/14Kg	n./1cycle, 60min.  160601-1, EAC TP 60601-1:14 - Edit 2xMOPP, Primary -FG: 2KVAC O/PFG: 100M Ohms /	TC 004, UL ANSI / AAM ion 3 approved; Design -Earth:1xMOPP, Second FG:1.5KVAC 500VDC / 25°C / 70% RH tandard N55011 (CISPR11) N61000-3-2 N61000-3-3 tandard N61000-4-2 N61000-4-5 N61000-4-5 N61000-4-5 N61000-4-8 N61000-4-11	refer to EN60335-dary-Earth:1xMOPP  Test Level / Class B Class I : Cla Class A  Test Level / 15K\ Level 3, 10V Table 9, 9~2 Level 3, 2KV Level 4, 4KV/ Level 3, 10V Level 4, 30A/ 95% dip 1 peri	Note  Note  I Air; Level 4, 8KV contact  I May (1980)  Note  I Air; Level 4, 8KV contact  I May (1980)  Note  I Note	
SAFETY & EMC (Note 7)	EMC IMMUN  MTBF  DIMENSION  1. All paramete 2. Ripple & no 3. Tolerang ma 5. Touch curre 6. The ambien 7. The power mounting the	LTITUDE Note.6  NDARDS RESISTANCE VOLTAGE RESISTANCE ION  (L*W*H)  ers NOT special size are measure includes set up ay be needed urent was measure it temperature of supply is conside unit on a 360	4000 meters IEC60601-1, TUV EN CAN/CSA-C22.2 No. Primary-Secondary: I/P-O/P:4KVAC I/P-I/P-O/P:4KVAC I/P-I/P-O/P, I/P-FG, O/P-Parameter Conducted emission Radiated emission Harmonic current Voltage flicker EN60601-1-2 Parameter ESD RF field susceptibility EFT bursts Surge susceptibility Conducted susceptibility Magnetic field immunity Voltage dip, interruption 468Khrs min. MIL-76.2*50.8*28mm or 3 0.13Kg; 100pcs/14Kg Ily mentioned are measured at 20MHz of bandwidt tolerance, line regulation der low input voltages. Fad from primary input to I ereating of 3.5°C/1000m vered a component which mm*360mm metal plate	n./1cycle, 60min.  160601-1, EAC TP 60601-1:14 - Edit 2xMOPP, Primary FG:2KVAC O/P- FG: 100M Ohms /	TC 004, UL ANSI / AAM ion 3 approved; Design -Earth: 1xMOPP, Second FG:1.5KVAC 500VDC / 25°C / 70% Ritandard N55011 (CISPR11) N55011 (CISPR11) N61000-3-2 N61000-3-3 tandard N61000-4-2 N61000-4-5 N61000-4-5 N61000-4-6 N61000-4-8 N61000-4-11	Test Level / Class B Class I : Cla Class A  Test Level / Level 4, 15K) Level 3, 10V Table 9, 9~2 Level 3, 2KV Level 4, 4KV/ Level 3, 10V Level 4, 30A/ 95% dip 1 peri 95% interrupt  ent temperature. th a 0.1 \( \mu f \) & 47 \( \mu f \) parallel of the six are been execust be re-confirmed that it is	Note  Note  I Note  I Note  I Note  I Note  I Sass B , Class II : Class A  I Note  I Sar I Level 4, 8KV contact  I M (80MHz~2.7GHz )  8V/m(385MHz~5.78GHz )  I Line-FG; 2KV/Line-Line  I Sass B , Class II : Class A  I S	

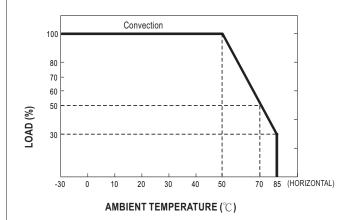


# ■ Block Diagram

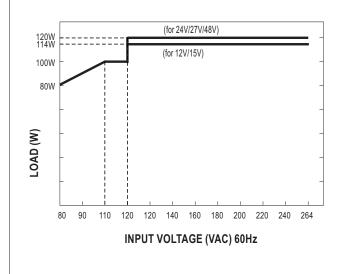
fosc: 85KHz



## ■ Derating Curve



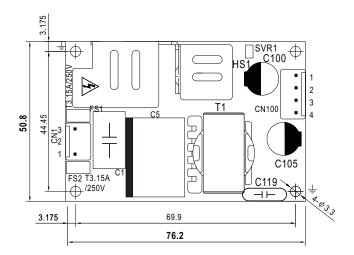
## ■ Output Derating VS Input Voltage

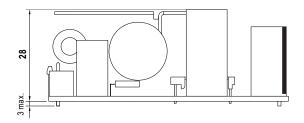




## ■ Mechanical Specification

Unit:mm





## AC Input Connector (CN1): JST B3P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal	
1	AC/L	ICTVIID	107.0\/11.047.044	
2	No Pin	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent	
3	AC/N	o. oquivaioni		

## DC Output Connector (CN2): JST B4P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1,2	+V	JST VHR	JST SVH-21T-P1.1
3,4	-V	or equivalent	or equivalent

1.HS1 must have safety isolation distance with system case.

## ※Note:

- 1.RPS-120S model delivers EMI Class B for both conducted emission and radiated emission for the power supply, when configured into Class  $\ I$  (with FG) system.
- 2.RPS-120S model delivers EMI Class B conducted emission and Class A radiated emission with King Core K5B RC (12\*15\*7) in output cable for the power supply when configured into Class  $\,\mathrm{II}\,$  (no FG) system.

#### ■ Installation Manual

Please refer to : http://www.meanwell.com/manual.html