



















#### Features

- · 4"×2" compact size
- Medical safety approved (2 x MOPP) accroding to ANSI/AAMI ES60601-1 and IEC/EN60601-1
- Suitable for BF application with appropriate system consideration
- 84W convention, 120W force air
- EMI Class B for both Class I (with FG) & Class II (no FG) configuration
- No load power consumption<0.3W</li>
- Extremely low leakage current
- 12V/0.5A fan supply
- Protections: Short circuit / Overload / Over voltage / Over temperature
- 3 years warranty

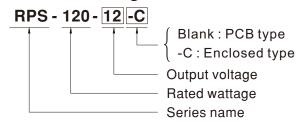
## Applications

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

### Description

RPS-120 is a 120W highly reliable green PCB type medical power supply with a high power density on a 4" 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 91% and the extremely low no load power consumption is down below 0.3W. RPS-120 is able to be used for both Class I (with FG) or 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





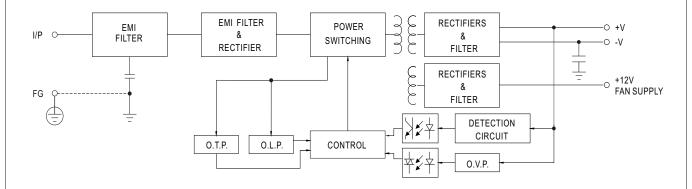
### **SPECIFICATION**

TOURTHE (Typ.)  CURRENT (Typ.)	120W 1 84W 2 100mVp-p 11.4~12.6V 3 ±2.0% ±0.5% ±1.0% 500ms, 30ms/230VAC 50ms/230VAC 10 4 80 ~ 264VAC 113 47 ~ 63Hz 89% 2.1A/115VAC 1.2 COLD START 30A/115 5 Earth leakage current 115~150% rated outpu Protection type: Hiccu 13.2 ~ 15.6V Protection type: Shut	0ms/115VAC at full lo = 370VDC 89% 84/230VAC 5VAC 60A/230V t < 150 μA/264VAC ut power	90%	ondition is removed	48V 2.5A 1.75A 120W 84W 150mVp-p 45.6~50.4V ±1.0% ±0.5% ±1.0%	
Convection 10CFM Convection NOISE (max.) Note E ADJ. RANGE TOLERANCE Note GULATION RISE TIME P TIME (Typ.) E RANGE Note. NCY RANGE NCY (Typ.) CURRENT (Typ.) CURRENT (Typ.) CURRENT (max.) Note AD OLTAGE	1 7.0A 120W 1 84W 2 100mVp-p 11.4~12.6V 3 ±2.0% ±0.5% ±1.0% 500ms, 30ms/230VAC 50ms/230VAC 10 4 80 ~ 264VAC 113 47 ~ 63Hz 89% 2.1A/115VAC 1.2 COLD START 30A/115 5 Earth leakage current 115~150% rated outpu Protection type: Hiccu 13.2 ~ 15.6V Protection type: Shut	5.6A  120W  84W  120mVp-p  14.3~15.8V  ±2.0%  ±0.5%  ±1.0%  500ms, 30ms/ 0ms/115VAC at full logs a ~ 370VDC  89%  A/230VAC  5VAC  60A/230V  at < 150 \( \mu A/264VAC \)  at power  pp mode, recovers an	3.5A 120W 84W 150mVp-p 22.8~25.2V ±1.0% ±0.5% ±1.0% 115VAC at full load ad  90%  VAC Touch current < 80 µA	3.15A 121.5W 85W 150mVp-p 25.6 ~ 28.4V ±1.0% ±0.5% ±1.0% 90%	1.75A 120W 84W 150mVp-p 45.6~50.4V ±1.0% ±0.5% ±1.0%	
Convection 10CFM Convection NOISE (max.) Note E ADJ. RANGE TOLERANCE Note GULATION RISE TIME P TIME (Typ.) E RANGE Note. NCY RANGE NCY (Typ.) CURRENT (Typ.) CURRENT (Typ.) CURRENT (max.) Note AD OLTAGE	120W 1 84W 2 100mVp-p 11.4~12.6V 3 ±2.0% ±0.5% ±1.0% 500ms, 30ms/230VAC 50ms/230VAC 10 4 80 ~ 264VAC 113 47 ~ 63Hz 89% 2.1A/115VAC 1.2 COLD START 30A/115 5 Earth leakage current 115~150% rated outpu Protection type: Hiccu 13.2 ~ 15.6V Protection type: Shut	120W 84W 120mVp-p 14.3~15.8V ±2.0% ±0.5% ±1.0% 500ms, 30ms/ 0ms/115VAC at full log 3~370VDC  89% 6VAC 60A/230V t < 150 \( \mu A/264VAC \) ut power up mode, recovers at	120W 84W 150mVp-p 22.8~25.2V ±1.0% ±0.5% ±1.0% 115VAC at full load pad  90%  VAC Touch current < 80 µA	121.5W 85W 150mVp-p 25.6 ~ 28.4V ±1.0% ±0.5% ±1.0%	120W 84W 150mVp-p 45.6 ~50.4V ±1.0% ±0.5% ±1.0%	
TOCFM Convection NOISE (max.) Note E ADJ. RANGE TOLERANCE NOTE GULATION EGULATION RISE TIME P TIME (Typ.) E RANGE NOTE NCY RANGE NCY (Typ.) CURRENT (Typ.) CURRENT (Typ.) CURRENT (max.) Note AD OLTAGE	120W 1 84W 2 100mVp-p 11.4~12.6V 3 ±2.0% ±0.5% ±1.0% 500ms, 30ms/230VAC 50ms/230VAC 10 4 80 ~ 264VAC 113 47 ~ 63Hz 89% 2.1A/115VAC 1.2 COLD START 30A/115 5 Earth leakage current 115~150% rated outpu Protection type: Hiccu 13.2 ~ 15.6V Protection type: Shut	84W  120mVp-p  14.3~15.8V  ±2.0%  ±0.5%  ±1.0%  500ms, 30ms/ 0ms/115VAC at full logs 3~370VDC  89%  2A/230VAC  5VAC 60A/230V  t < 150 μA/264VAC  ut power up mode, recovers at	84W 150mVp-p 22.8~25.2V ±1.0% ±0.5% ±1.0% 115VAC at full load pad  90%  VAC Touch current < 80 μA	85W 150mVp-p 25.6 ~ 28.4V ±1.0% ±0.5% ±1.0% 90%	84W 150mVp-p 45.6 ~50.4V ±1.0% ±0.5% ±1.0%	
NOISE (max.) Note E ADJ. RANGE TOLERANCE Note GULATION EGULATION RISE TIME P TIME (Typ.) E RANGE Note. NCY RANGE NCY (Typ.) CURRENT (Typ.) CURRENT (Typ.) CURRENT (max.) Note AD OLTAGE	2 100mVp-p 11.4~12.6V 3 ±2.0% ±0.5% ±1.0% 500ms, 30ms/230VAC 50ms/230VAC 10 4 80~264VAC 113 47~63Hz 89% 2.1A/115VAC 1.2 COLD START 30A/115 5 Earth leakage current 115~150% rated outpu Protection type: Hiccu 13.2~15.6V Protection type: Shut	120mVp-p  14.3~15.8V  ±2.0%  ±0.5%  ±1.0%  500ms, 30ms/ 0ms/115VAC at full log a~370VDC  89%  2A/230VAC  5VAC 60A/230V at < 150 \( \mu A/264VAC \) ut power up mode, recovers an	150mVp-p 22.8~25.2V ±1.0% ±0.5% ±1.0%  115VAC at full load ad  90%  VAC Touch current < 80 µA	150mVp-p 25.6 ~ 28.4V ±1.0% ±0.5% ±1.0%  90%	150mVp-p 45.6 ~50.4V ±1.0% ±0.5% ±1.0%	
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E ADJ. RANGE TOLERANCE Note GULATION EGULATION RISE TIME P TIME (Typ.) E RANGE Note. NCY RANGE NCY (Typ.) RENT (Typ.) CURRENT (Typ.) CURRENT (Max.) Note AD OLTAGE	11.4~12.6V  3 ±2.0%  ±0.5%  ±1.0%  500ms, 30ms/230VAC  50ms/230VAC  10  4 80 ~ 264VAC  113  47 ~ 63Hz  89%  2.1A/115VAC  1.2  COLD START 30A/115  Earth leakage current  115~150% rated output  Protection type: Hiccut  13.2 ~ 15.6V  Protection type: Shut	14.3~15.8V  ±2.0%  ±0.5%  ±1.0%  500ms, 30ms/ 0ms/115VAC at full log a~370VDC  89%  A/230VAC  60A/230VAC  5VAC 60A/230VAC at power up mode, recovers at	22.8~25.2V ±1.0% ±0.5% ±1.0%  115VAC at full load oad  90%  VAC , Touch current < 80 µA	25.6 ~ 28.4V ±1.0% ±0.5% ±1.0% 90%	45.6~50.4V ±1.0% ±0.5% ±1.0%	
TOLERANCE Note GULATION EGULATION RISE TIME P TIME (Typ.) E RANGE Note. NCY RANGE NCY (Typ.) RENT (Typ.) CURRENT (Typ.) CURRENT (Typ.) CURRENT (Max.) Note AD	3 ±2.0% ±0.5% ±1.0% 500ms, 30ms/230VAC 50ms/230VAC 10 4 80 ~ 264VAC 113 47 ~ 63Hz 89% 2.1A/115VAC 1.2 COLD START 30A/115 5 Earth leakage current 115~150% rated outpure the country of the cou	±2.0% ±0.5% ±1.0% 500ms, 30ms/ 0ms/115VAC at full log a 370VDC  89% 2A/230VAC 5VAC 60A/230V t < 150 \( \mu A/264VAC \) ut power up mode, recovers at	±1.0% ±0.5% ±1.0%  115VAC at full load  pad  90%  VAC  Touch current < 80 μA	# 1.0% # 0.5% # 1.0% # 1.0% 90% /264VAC condition is removed	±1.0% ±0.5% ±1.0%	
GULATION EGULATION RISE TIME P TIME (Typ.) E RANGE Note. NCY RANGE NCY (Typ.) RENT (Typ.) CURRENT (Typ.) CURRENT (Max.) Note AD OLTAGE	±0.5%  ±1.0%  500ms, 30ms/230VAC  50ms/230VAC  10  4 80 ~ 264VAC  113  47 ~ 63Hz  89%  2.1A/115VAC  1.2  COLD START 30A/115  5 Earth leakage current  115~150% rated output  Protection type: Hiccut  13.2 ~ 15.6V  Protection type: Shut	±0.5%  ±1.0%  500ms, 30ms/ 0ms/115VAC at full lose and a second of the s	±0.5% ±1.0%  115VAC at full load  pad  90%  VAC  Touch current < 80 µA	±0.5% ±1.0%  90%  /264VAC  ondition is removed	±0.5% ±1.0%	
EGULATION RISE TIME P TIME (Typ.) E RANGE Note. NCY RANGE NCY (Typ.) RENT (Typ.) CURRENT (Typ.) CURRENT(max.) Note AD OLTAGE	±1.0% 500ms, 30ms/230VAC 50ms/230VAC 10 4 80 ~ 264VAC 113 47 ~ 63Hz 89% 2.1A/115VAC 1.2 COLD START 30A/115 5 Earth leakage current 115~150% rated outpu Protection type: Hiccu 13.2 ~ 15.6V Protection type: Shut	±1.0% 500ms, 30ms/ 0ms/115VAC at full lose ~ 370VDC  89% A/230VAC 5VAC 60A/230V t < 150 μA/264VAC ut power up mode, recovers at	±1.0%  115VAC at full load  pad  90%  VAC  Touch current < 80 µA	±1.0%  90%  /264VAC  ondition is removed	±1.0%	
RISE TIME P TIME (Typ.) E RANGE Note. NCY RANGE NCY (Typ.) RENT (Typ.) CURRENT (Typ.) CURRENT (Max.) Note AD OLTAGE	500ms, 30ms/230VAC 50ms/230VAC 10 4 80 ~ 264VAC 113 47 ~ 63Hz 89% 2.1A/115VAC 1.2 COLD START 30A/115 5 Earth leakage current 115~150% rated outpu Protection type: Hiccu 13.2 ~ 15.6V Protection type: Shut	500ms, 30ms/ 0ms/115VAC at full loss ~ 370VDC  89% 0A/230VAC 5VAC 60A/230V t < 150 \( \mu A/264VAC \) ut power up mode, recovers an	115VAC at full load pad 90% VAC Touch current < 80 µA	90% /264VAC ondition is removed		
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E RANGE Note.  NCY RANGE  NCY (Typ.)  RENT (Typ.)  CURRENT (Typ.)  CURRENT (Max.) Note  AD  OLTAGE  EMPERATURE	4 80 ~ 264VAC 113 47 ~ 63Hz 89% 2.1A/115VAC 1.2 COLD START 30A/115 5 Earth leakage current 115~150% rated outpu Protection type : Hiccu 13.2 ~ 15.6V Protection type : Shut	89% A/230VAC 5VAC 60A/230V t < 150 \( \mu A/264VAC \) ut power up mode, recovers an	90% VAC , Touch current < 80 μA	/264VAC ondition is removed	91%	
NCY RANGE NCY (Typ.) RENT (Typ.) CURRENT (Typ.) CURRENT(max.) Note AD OLTAGE	47 ~ 63Hz  89%  2.1A/115VAC  COLD START 30A/115  5 Earth leakage current  115~150% rated outpu  Protection type: Hiccu  13.2 ~ 15.6V  Protection type: Shut	89%  2A/230VAC  5VAC 60A/230V  t < 150 \( \mu A/264VAC \)  ut power  up mode, recovers an	VAC , Touch current < 80 μA	/264VAC ondition is removed	91%	
NCY (Typ.) RENT (Typ.) CURRENT (Typ.) CURRENT(max.) Note AD  OLTAGE	89% 2.1A/115VAC 1.2 COLD START 30A/115 5 Earth leakage current 115~150% rated outpu Protection type: Hiccu 13.2~15.6V Protection type: Shut	2A/230VAC 5VAC 60A/230V t < 150 \( \mu A/264VAC \)  ut power  up mode, recovers an	VAC , Touch current < 80 μA	/264VAC ondition is removed	91%	
RENT (Typ.) CURRENT (Typ.) CURRENT(max.) Note AD  OLTAGE EMPERATURE	2.1A/115VAC 1.2  COLD START 30A/115  5 Earth leakage current 115~150% rated outpu Protection type: Hiccu 13.2 ~ 15.6V Protection type: Shut	2A/230VAC 5VAC 60A/230V t < 150 \( \mu A/264VAC \)  ut power  up mode, recovers an	VAC , Touch current < 80 μA	/264VAC ondition is removed	91%	
CURRENT (Typ.) CURRENT(max.) Note AD  OLTAGE EMPERATURE	COLD START 30A/115 5 Earth leakage current 115~150% rated outpu Protection type: Hiccu 13.2 ~ 15.6V Protection type: Shut	5VAC 60A/230 <sup>1</sup> t < 150 μA/264VAC ut power up mode, recovers an	, Touch current < 80 μA	ondition is removed		
CURRENT(max.) Note AD  OLTAGE  EMPERATURE	5.5 Earth leakage current 115~150% rated outpu Protection type : Hiccu 13.2 ~ 15.6V Protection type : Shut	t < 150 µA/264VAC ut power up mode, recovers a	, Touch current < 80 μA	ondition is removed		
AD DLTAGE EMPERATURE	115~150% rated output Protection type: Hiccut 13.2 ~ 15.6V Protection type: Shut	ut power		ondition is removed		
DLTAGE EMPERATURE	Protection type : Hiccu 13.2 ~ 15.6V Protection type : Shut	ip mode, recovers a	utomatically after fault c			
DLTAGE EMPERATURE	13.2 ~ 15.6V Protection type : Shut	,	utomatically after fault o			
MPERATURE	Protection type : Shut	16.5 ~ 19.5V		20.7 25\/		
MPERATURE			26.4 ~ 31.2V	29.7 ~ 35V	52.8 ~ 62.4V	
		down o/p voltage, re	-power on to recover	'	1	
DIV	Thoughtion type. Shut		-power on to recover			
FLI	12V@0.5A for driving a fan ; tolerance -15% ~ +10%					
G TEMP.	-30 ~ +70°C (Refer to "Derating Curve")					
G HUMIDITY	20 ~ 90% RH non-cond					
TEMP., HUMIDIT			n			
DEFFICIENT	±0.03%/°C (0~50°C		9			
	,	<u>'</u>	ash alang V V 7 ayaa			
ON	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes					
IG ALTITUDE Note		COCO4 4 III ANCI	/ A A M I E C C C C C A . 4 . (2 . 4			
STANDARDS			/ AAMI ES60601-1 (3.1 n.3. approved: Design	refer to EN60335-1		
ON RESISTANCE						
ND VOLTAGE	Primary-Secondary: 2xMOPP, Primary-Earth:1xMOPP, Secondary-Earth:1xMOPP  I/P-O/P:4KVAC					
ON RESISTANC	E I/P-O/P, I/P-FG:100M	Ohms / 500VDC / 2	25°C/70% RH			
011112010171110	Parameter		ndard	Test Level /	Note	
	Conducted emission		55011 (CISPR11)	Class B		
IISSION	Radiated emission	EN	55011 (CISPR11)	Class B		
	Harmonic current		61000-3-2	Class A		
	Voltage flicker EN60601-1-2					
	Parameter	Sta	ndard	Test Level /	Note	
	ESD				air ; Level 4, 8KV contact	
	RF field susceptibility	ENI	31000-4-3	Level 3, 10V/	m( 80MHz~2.7GHz )	
					V/m( 385MHz~5.78GHz	
MUNITY					ine-FG; 2KV/Line-Line	
	Conducted susceptibility			Level 3, 10V		
	Magnetic field immunity	EN	61000-4-8	Level 4, 30A/n	n	
	Voltage dip, interruption	ENG	61000-4-11		ods, 30% dip 25 periods,	
	• 1: 1		100% Interrupt	uons 200 periods		
ON /1 ******		,	•	02 4*60*40 4 67"	* 0 //" * 4	
( ) A   /   X   A   X   I   \					2.44 "1.5/" INCh	
, ,	ially mentioned are measure ired at 20MHz of bandwidth p tolerance, line regulation under low input voltages. P ired from primary input to D	ed at 230VAC input, r h by using a 12" twiste and load regulation. lease check the derati 0C output. eeded for operating al will be installed into a	ated load and 25 of ambie d pair-wire terminated with ing curve for more details. Ititude greater than 2000m final equipment. All the El	n a 0.1 µf & 47 µf parallel c 1 (6500ft). MC tests are been execute	ed by	
	& noise are measunce: includes set ung may be needed current was measu	RF field susceptibility  EFT bursts  Surge susceptibility  Conducted susceptibility  Conducted susceptibility  Voltage dip, interruption  653.5Khrs min. MIL  ON (L*W*H)  PCB:101.6*50.8*29mr  PCB:0.15Kg; 72pcs/1²  ameters NOT specially mentioned are measure & noise are measured at 20MHz of bandwidth race: includes set up tolerance, line regulation ing may be needed under low input voltages. P current was measured from primary input to Enbient temperature derating of 5°C/1000m is nower supply is considered a component which ing the unit on a 360mm*360mm metal plate v	RF field susceptibility  EFT bursts Surge susceptibility  ENG  Conducted susceptibility  ENG  Magnetic field immunity  Voltage dip, interruption  ENG  653.5Khrs min. MIL-HDBK-217F (25°C)  ON (L*W*H)  PCB:101.6*50.8*29mm or 4" * 2" *1.141"  PCB:0.15Kg; 72pcs/11.8Kg/0.82CUFT; Eng  ameters NOT specially mentioned are measured at 230VAC input, rowers are measured at 20MHz of bandwidth by using a 12" twisted note: includes set up tolerance, line regulation and load regulation. In growing may be needed under low input voltages. Please check the deratic current was measured from primary input to DC output. In the properties of the properties	MUNITY  ESD  EN61000-4-2  RF field susceptibility  EN61000-4-3  EFT bursts  EN61000-4-4  Surge susceptibility  EN61000-4-5  Conducted susceptibility  EN61000-4-6  Magnetic field immunity  EN61000-4-8  Voltage dip, interruption  EN61000-4-11  653.5Khrs min. MIL-HDBK-217F (25°C)  ON (L*W*H)  PCB:101.6*50.8*29mm or 4" * 2" *1.141" inch ; Enclosed type:10  PCB:0.15Kg; 72pcs/11.8Kg/0.82CUFT; Enclosed type:0.24Kg; 60  ameters NOT specially mentioned are measured at 230VAC input, rated load and 25 of ambie & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with nece: includes set up tolerance, line regulation and load regulation.  Ing may be needed under low input voltages. Please check the derating curve for more details. current was measured from primary input to DC output.  Inbient temperature derating of 5°C/1000m is needed for operating altitude greater than 2000m wer supply is considered a component which will be installed into a final equipment. All the El ing the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment mus	BSD EN61000-4-2 Level 4, 15kV RF field susceptibility EN61000-4-3 Level 3, 10V/Table 9, 9~28 EFT bursts EN61000-4-4 Level 3, 2kV Surge susceptibility EN61000-4-5 Level 4, 4kV/I Conducted susceptibility EN61000-4-6 Level 3, 10V Magnetic field immunity EN61000-4-6 Level 4, 3 10V Voltage dip, interruption EN61000-4-11 100% dip 1 peri 100% interruption 653.5khrs min. MIL-HDBK-217F (25°C)  ON (L*W*H) PCB:101.6*50.8*29mm or 4" * 2" *1.141" inch ; Enclosed type:103.4*62*40mm or 4.07" PCB:0.15kg; 72pcs/11.8kg/0.82CUFT; Enclosed type:0.24kg; 60pcs/15.4kg/1.12CUFT ameters NOT specially mentioned are measured at 230VAC input, rated load and 25 of ambient temperature. & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μf & 47 μf parallel conce : includes set up tolerance, line regulation and load regulation. go may be needed under low input voltages. Please check the derating curve for more details. current was measured from primary input to DC output. noisent temperature derating of 5°C/1000m is needed for operating altitude greater than 2000m (6500ft). were supply is considered a component which will be installed into a final equipment. All the EMC tests are been executing the unit on a 360mm*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it stificectives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."	

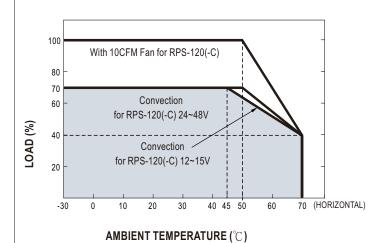


# ■ Block Diagram

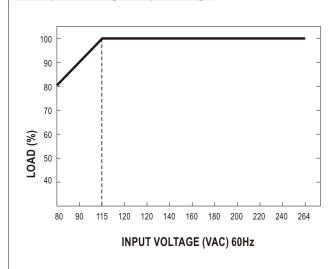
fosc: 65KHz



## ■ Derating Curve



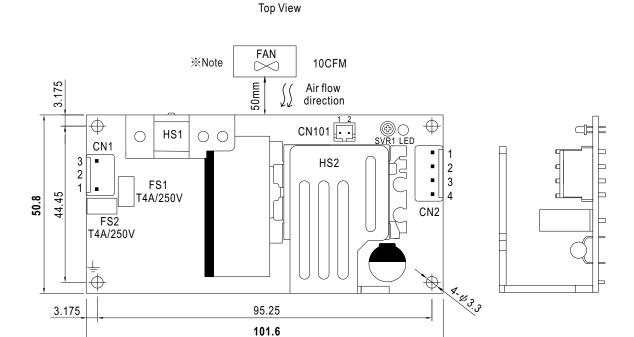
## ■ Output Derating VS Input Voltage

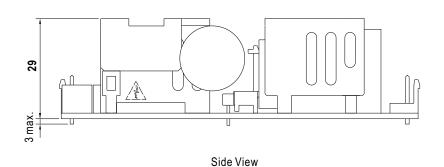




### ■ Mechanical Specification

### RPS-120 (PCB Type)



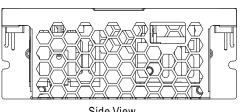




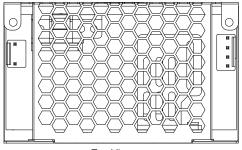
# ■ Mechanical Specification

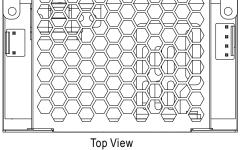
Side View

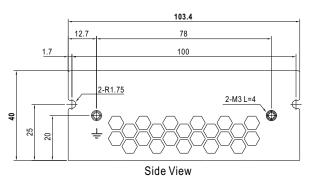
### RPS-120-C (Enclosed Type)

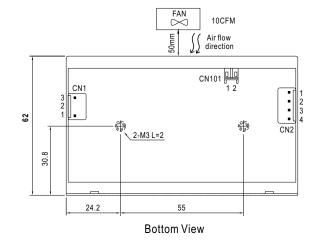


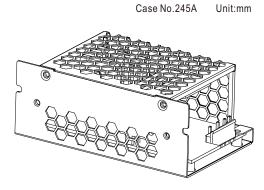
Side View

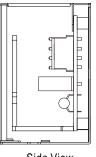












Side View



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

Pin No.	Assignment	Mating Housing	Terminal
1	AC/N	IOTAUD	10T 0\/LL 04T D4 4
2	No Pin	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
3	AC/L	or oquivalone	or oquivaloni

### 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

#### FAN Connector(CN101): JST S2B-PH-K-S or equivalent

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Pin No.	Assignment	Mating Housing	Terminal
1	DC COM(FAN-)	JST PHR-2	JST SPH-002T-P0.5S
2	+12V(FAN+)	or equivalent	or equivalent

1.HS1,HS2 cannot be shorted.

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

- enabling the full load delivery and assuring the best life span of the product. Please do not use this FAN supply to drive other devices.
  - 2. The PCB type (Blank type) model delivers EMI Class B for both conducted emission and radiated emission for the power supply, when configured into either Class  $\ I\ (\mbox{with FG})$  or Class  $\ II\ (\mbox{no FG})$  system.
  - 3. The Enclosed type(-C type) model is not suitable for the configuration within a Class II (no FG) system but is suggested to used within a Class  $\ I\ (\text{with FG})\ \text{system}.$

#### ■ Installation Manual

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