

















#### ■ 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
- · Cooling by free air convection
- EMI class B for class I configuration
- · Extremely low leakage current
- Protections: Short circuit / Overload / Over voltage
- 3 years warranty

# Applications

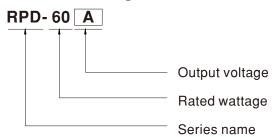
- Oral irrigator
- · Hemodialysis machine
- · Medical computer monitors
- · Sleep apnea devices

#### Description

RPD-60 is a 60W highly reliable green PCB type medical power supply with a high power density on the 4" by 2" footprint. It accepts 90~264VAC input and offers dual output voltages.

RPD-60 is able to be used for Class I (with FG) system design. The extremely low leakage current is less than 150 \( \mu A \). In addition, it conforms to international medical regulations (2\*MOPP) and EMC EN55011.

# **■** Model Encoding





#### **SPECIFICATION**

MODEL		RPD-60A		RPD-60B	RPD-60B			
	OUTPUT NUMBER	CH1	CH2	CH1	CH2			
	DC VOLTAGE	5V	12V	5V	24V			
	RATED CURRENT	5A	2A	3.5A	1.5A			
	CURRENT RANGE	0.5 ~ 5.5A	0.1 ~ 2.2A	0.5 ~ 3.85A	0.1 ~ 1.65A			
	RATED POWER	49W			53.5W			
		53.9W		58.85W				
OUTPUT	RIPPLE & NOISE (max.) Note.3			80mVp-p 100mVp-p				
	VOLTAGE TOLERANCE Note.4		±6.0%	+3,-2%	+8,-4%			
	LINE REGULATION	±0.5%	±1.0%	±0.5%	±1.0%			
	LOAD REGULATION	±1.5%	±2.0%	±1.5%	±2.0%			
	SETUP, RISE TIME	300ms, 15ms/230VAC 300ms, 15ms/115VAC at full load						
	HOLD UP TIME (Typ.)	70ms/230VAC 14ms/115VAC at full load						
	VOLTAGE RANGE							
	FREQUENCY RANGE	90 ~ 264VAC 127 ~ 370VDC						
		47 ~ 63Hz						
NPUT	AC CURRENT (Typ.)	1 - 77	78% 82%					
	INRUSH CURRENT (Typ.)	1.1A/115VAC 0.7 A/230VAC 0.7 COLD START 60A/230VAC 30A/115VAC						
	( ) ( )			10 100 11 10				
	LEAKAGE CURRENT Note.5			00 <b>μ</b> Α/264VAC				
	OVERLOAD	115 ~ 150% rated output power						
ROTECTION		Protection type: Hiccup mode, recovers automatically after fault condition is removed						
	OVER VOLTAGE	CH1: 5.75 ~ 6.75V						
	0.101	Protection type : Shut down o/p		/er				
	WORKING TEMP.	-20 ~ +65°C (Refer to "Derating	(Curve")					
	WORKING HUMIDITY	20 ~ 90% RH non-condensing						
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 $\sim$ +85 $^{\circ}$ C, 10 $\sim$ 95% RH non-condensing						
NVIRONMENT		$\pm 0.03\%$ °C (0 ~ 45°C)						
NVIKONMENI	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 45°C)	<b>3</b>					
NVIKUNMENI	TEMP. COEFFICIENT VIBRATION	±0.03%/°C (0 ~ 45°C) 10 ~ 500Hz, 2G 10min./1cycle,		X, Y, Z axes				
NVIKONMENI		10 ~ 500Hz, 2G 10min./1cycle,		X, Y, Z axes				
NVIKUNMENI	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, 3000 meters	period for 60min. each along		1-1, CAN/CSA-C22.2 No. 60601-1:14 - Edition			
NVIKONMENI	VIBRATION OPERATING ALTITUDE Note.	10 ~ 500Hz, 2G 10min./1cycle, 5 3000 meters UL60950-1,TUV EN60950-1,IE	period for 60min. each along C60601-1, EAC TP TC 004, U	IL ANSI/AAMI ES6060	1-1, CAN/CSA-C22.2 No. 60601-1:14 - Edition			
NVIRONMENI	VIBRATION OPERATING ALTITUDE Note. SAFETY STANDARDS	10 ~ 500Hz, 2G 10min./1cycle, 3000 meters UL60950-1,TUV EN60950-1,IE approved,TUV EN60601-1 app	period for 60min. each along C60601-1, EAC TP TC 004, U roved Primary-Earth:1xMOPP, Seco	IL ANSI/AAMI ES6060	1-1, CAN/CSA-C22.2 No. 60601-1:14 - Edition			
NVIRONMENI	VIBRATION OPERATING ALTITUDE Note. SAFETY STANDARDS ISOLATION LEVEL	10 ~ 500Hz, 2G 10min./1cycle, 3000 meters UL60950-1,TUV EN60950-1,IE approved,TUV EN60601-1 app Primary-Secondary: 2xMOPP, I	period for 60min. each along C60601-1, EAC TP TC 004, U roved Primary-Earth:1xMOPP, Seco C O/P-FG:1.5KVAC	IL ANSI/AAMI ES6060 ndary-Earth:1xMOPP	1-1, CAN/CSA-C22.2 No. 60601-1:14 - Edition			
NVIKUNMENI	VIBRATION OPERATING ALTITUDE Note. SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE	10 ~ 500Hz, 2G 10min./1cycle, 3000 meters UL60950-1,TUV EN60950-1,IE approved,TUV EN60601-1 app Primary-Secondary: 2xMOPP, I I/P-O/P:4KVAC I/P-FG:2KVA	period for 60min. each along C60601-1, EAC TP TC 004, U roved Primary-Earth:1xMOPP, Seco C O/P-FG:1.5KVAC	IL ANSI/AAMI ES6060 ndary-Earth:1xMOPP	1-1, CAN/CSA-C22.2 No. 60601-1:14 - Edition  Test Level / Note			
NVIKUNMENI	VIBRATION OPERATING ALTITUDE Note. SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE	10 ~ 500Hz, 2G 10min./1cycle, 3000 meters UL60950-1,TUV EN60950-1,IE approved,TUV EN60601-1 app Primary-Secondary: 2xMOPP, I I/P-O/P:4KVAC I/P-FG:2KVA I/P-O/P, I/P-FG, O/P-FG:100M	period for 60min. each along C60601-1, EAC TP TC 004, L roved Primary-Earth:1xMOPP, Seco C O/P-FG:1.5KVAC Ohms / 500VDC / 25°C / 70%	IL ANSI/AAMI ES6060 ndary-Earth:1xMOPP				
NVIRONMENT	VIBRATION OPERATING ALTITUDE Note. SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE	10 ~ 500Hz, 2G 10min./1cycle, 6 3000 meters UL60950-1,TUV EN60950-1,IE approved,TUV EN60601-1 app Primary-Secondary: 2xMOPP, I I/P-O/P:4KVAC I/P-FG:2KVA I/P-O/P, I/P-FG, O/P-FG:100M Parameter	period for 60min. each along C60601-1, EAC TP TC 004, L roved Primary-Earth:1xMOPP, Seco C O/P-FG:1.5KVAC Ohms / 500VDC / 25°C / 70% Standard	IL ANSI/AAMI ES6060 ndary-Earth:1xMOPP RH	Test Level / Note			
	VIBRATION OPERATING ALTITUDE Note. SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE ISOLATION RESISTANCE	10 ~ 500Hz, 2G 10min./1cycle, 6 3000 meters UL60950-1,TUV EN60950-1,IE approved,TUV EN60601-1 app Primary-Secondary: 2xMOPP, I I/P-O/P:4KVAC I/P-FG:2KVA I/P-O/P, I/P-FG, O/P-FG:100M Parameter Conducted emission	period for 60min. each along  C60601-1, EAC TP TC 004, L  roved  Primary-Earth:1xMOPP, Seco  C O/P-FG:1.5KVAC  Ohms / 500VDC / 25°C / 70%  Standard  EN55011 (CISP	IL ANSI/AAMI ES6060 ndary-Earth:1xMOPP RH	Test Level / Note Class B			
SAFETY &	VIBRATION OPERATING ALTITUDE Note. SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE ISOLATION RESISTANCE	10 ~ 500Hz, 2G 10min./1cycle, 3000 meters  UL60950-1,TUV EN60950-1,IE approved,TUV EN60601-1 app. Primary-Secondary: 2xMOPP, I I/P-O/P:4KVAC I/P-FG:2KVA I/P-O/P, I/P-FG, O/P-FG:100M Parameter  Conducted emission Radiated emission Harmonic current	period for 60min. each along  C60601-1, EAC TP TC 004, L roved  Primary-Earth:1xMOPP, Seco  C	IL ANSI/AAMI ES6060 ndary-Earth:1xMOPP RH	Test Level / Note Class B Class B			
SAFETY &	VIBRATION OPERATING ALTITUDE Note. SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE ISOLATION RESISTANCE	10 ~ 500Hz, 2G 10min./1cycle, 3000 meters UL60950-1,TUV EN60950-1,IE approved,TUV EN60601-1 app Primary-Secondary: 2xMOPP, I I/P-O/P:4KVAC I/P-FG:2KVA I/P-O/P, I/P-FG, O/P-FG:100M Parameter Conducted emission Radiated emission	period for 60min. each along  C60601-1, EAC TP TC 004, L roved  Primary-Earth:1xMOPP, Seco  C	IL ANSI/AAMI ES6060 ndary-Earth:1xMOPP RH	Class B Class B Class A			
SAFETY &	VIBRATION OPERATING ALTITUDE Note. SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE ISOLATION RESISTANCE	10 ~ 500Hz, 2G 10min./1cycle, 3000 meters  UL60950-1,TUV EN60950-1,IE approved,TUV EN60601-1 app Primary-Secondary: 2xMOPP, I I/P-O/P:4KVAC I/P-FG:2KVA I/P-O/P, I/P-FG, O/P-FG:100M Parameter  Conducted emission  Radiated emission  Harmonic current  Voltage flicker	period for 60min. each along  C60601-1, EAC TP TC 004, L roved  Primary-Earth:1xMOPP, Seco  C	IL ANSI/AAMI ES6060 ndary-Earth:1xMOPP RH	Test Level / Note Class B Class B Class A			
SAFETY &	VIBRATION OPERATING ALTITUDE Note. SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE ISOLATION RESISTANCE	10 ~ 500Hz, 2G 10min./1cycle, 3000 meters  UL60950-1,TUV EN60950-1,IE approved,TUV EN60601-1 app Primary-Secondary: 2xMOPP, I I/P-O/P:4KVAC I/P-FG:2KVA I/P-O/P, I/P-FG, O/P-FG:100M Parameter  Conducted emission  Radiated emission  Harmonic current  Voltage flicker  EN60601-1-2  Parameter	period for 60min. each along  C60601-1, EAC TP TC 004, U  roved  Primary-Earth:1xMOPP, Seco  C O/P-FG:1.5KVAC  Ohms / 500VDC / 25°C / 70%  Standard  EN55011 (CISP  EN61000-3-2  EN61000-3-3	IL ANSI/AAMI ES6060 ndary-Earth:1xMOPP RH	Test Level / Note Class B Class B Class A Test Level / Note			
SAFETY &	VIBRATION OPERATING ALTITUDE Note. SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE ISOLATION RESISTANCE	10 ~ 500Hz, 2G 10min./1cycle, 3000 meters  UL60950-1,TUV EN60950-1,IE approved,TUV EN60601-1 app Primary-Secondary: 2xMOPP, I I/P-O/P:4KVAC I/P-FG:2KVA I/P-O/P, I/P-FG, O/P-FG:100M Parameter  Conducted emission  Radiated emission  Harmonic current  Voltage flicker  EN60601-1-2	period for 60min. each along C60601-1, EAC TP TC 004, U roved Primary-Earth:1xMOPP, Seco C O/P-FG:1.5KVAC Ohms / 500VDC / 25°C / 70% Standard EN55011 (CISP EN55011 (CISP EN61000-3-2 EN61000-3-3	IL ANSI/AAMI ES6060 ndary-Earth:1xMOPP RH	Test Level / Note Class B Class B Class A Test Level / Note Level 4, 15KV air ; Level 4, 8KV conta Level 3, 10V/m( 80MHz~2.7GHz )			
SAFETY &	VIBRATION OPERATING ALTITUDE Note. SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	10 ~ 500Hz, 2G 10min./1cycle, 3000 meters  UL60950-1,TUV EN60950-1,IE approved,TUV EN60601-1 app Primary-Secondary: 2xMOPP, I I/P-O/P:4KVAC I/P-FG:2KVA I/P-O/P, I/P-FG, O/P-FG:100M Parameter Conducted emission Radiated emission Harmonic current Voltage flicker EN60601-1-2 Parameter ESD  RF field susceptibility	period for 60min. each along  C60601-1, EAC TP TC 004, L roved  Primary-Earth:1xMOPP, Seco  C O/P-FG:1.5KVAC  Ohms / 500VDC / 25°C / 70%  Standard  EN55011 (CISP EN61000-3-2 EN61000-3-3  Standard EN61000-4-2 EN61000-4-3	IL ANSI/AAMI ES6060 ndary-Earth:1xMOPP RH	Test Level / Note  Class B  Class B  Class A   Test Level / Note  Level 4, 15KV air; Level 4, 8KV conta Level 3, 10V/m(80MHz~2.7GHz)  Table 9, 9~28V/m(385MHz~5.78GHz)			
SAFETY &	VIBRATION OPERATING ALTITUDE Note. SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE ISOLATION RESISTANCE	10 ~ 500Hz, 2G 10min./1cycle, 3000 meters  UL60950-1,TUV EN60950-1,IE approved,TUV EN60601-1 app Primary-Secondary: 2xMOPP, I I/P-O/P:4KVAC I/P-FG:2KVA I/P-O/P, I/P-FG, O/P-FG:100M Parameter Conducted emission Radiated emission Harmonic current Voltage flicker EN60601-1-2 Parameter ESD  RF field susceptibility EFT bursts	period for 60min. each along  C60601-1, EAC TP TC 004, L roved  Primary-Earth:1xMOPP, Seco  C O/P-FG:1.5KVAC  Ohms / 500VDC / 25°C / 70%  Standard  EN55011 (CISP  EN61000-3-2  EN61000-3-3  Standard  EN61000-4-2  EN61000-4-3  EN61000-4-4	IL ANSI/AAMI ES6060 ndary-Earth:1xMOPP RH	Test Level / Note  Class B  Class B  Class A   Test Level / Note  Level 4, 15KV air; Level 4, 8KV conta Level 3, 10V/m(80MHz~2.7GHz) Table 9, 9~28V/m(385MHz~5.78GHz) Level 3, 2KV			
SAFETY &	VIBRATION OPERATING ALTITUDE Note. SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	10 ~ 500Hz, 2G 10min./1cycle, 3000 meters  UL60950-1,TUV EN60950-1,IE approved,TUV EN60601-1 app Primary-Secondary: 2xMOPP, I I/P-O/P:4KVAC I/P-FG:2KVA I/P-O/P, I/P-FG, O/P-FG:100M Parameter  Conducted emission Radiated emission Harmonic current Voltage flicker EN60601-1-2 Parameter ESD  RF field susceptibility  EFT bursts Surge susceptibility	period for 60min. each along  C60601-1, EAC TP TC 004, L roved  Primary-Earth:1xMOPP, Seco  C O/P-FG:1.5KVAC  Ohms / 500VDC / 25°C / 70%  Standard  EN55011 (CISP  EN61000-3-2  EN61000-3-3  Standard  EN61000-4-2  EN61000-4-3  EN61000-4-3	IL ANSI/AAMI ES6060 ndary-Earth:1xMOPP RH	Test Level / Note  Class B  Class B  Class A   Test Level / Note  Level 4, 15KV air; Level 4, 8KV conta Level 3, 10V/m( 80MHz~2.7GHz ) Table 9, 9~28V/m( 385MHz~5.78GHz ) Level 3, 2KV  Level 4, 4KV/Line-FG; 2KV/Line-Line			
SAFETY &	VIBRATION OPERATING ALTITUDE Note. SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	10 ~ 500Hz, 2G 10min./1cycle, 3000 meters  UL60950-1,TUV EN60950-1,IE approved,TUV EN60601-1 app Primary-Secondary: 2xMOPP, I I/P-O/P:4KVAC I/P-FG:2KVA I/P-O/P, I/P-FG, O/P-FG:100M Parameter  Conducted emission Radiated emission Harmonic current Voltage flicker EN60601-1-2 Parameter ESD  RF field susceptibility EFT bursts Surge susceptibility Conducted susceptibility	period for 60min. each along  C60601-1, EAC TP TC 004, L roved  Primary-Earth:1xMOPP, Seco  C O/P-FG:1.5KVAC  Ohms / 500VDC / 25°C / 70%  Standard  EN55011 (CISP  EN61000-3-2  EN61000-3-3  Standard  EN61000-4-2  EN61000-4-2  EN61000-4-3  EN61000-4-5  EN61000-4-6	IL ANSI/AAMI ES6060 ndary-Earth:1xMOPP RH	Test Level / Note  Class B  Class B  Class A  Test Level / Note  Level 4, 15KV air; Level 4, 8KV conta Level 3, 10V/m(80MHz~2.7GHz) Table 9, 9~28V/m(385MHz~5.78GHz) Level 3, 2KV  Level 4, 4KV/Line-FG; 2KV/Line-Lin Level 3, 10V			
AFETY &	VIBRATION OPERATING ALTITUDE Note. SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	10 ~ 500Hz, 2G 10min./1cycle, 3000 meters  UL60950-1,TUV EN60950-1,IE approved,TUV EN60601-1 app Primary-Secondary: 2xMOPP, I I/P-O/P:4KVAC I/P-FG:2KVA I/P-O/P, I/P-FG, O/P-FG:100M 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	period for 60min. each along  C60601-1, EAC TP TC 004, L roved  Primary-Earth:1xMOPP, Seco  C O/P-FG:1.5KVAC  Ohms / 500VDC / 25°C / 70%  Standard  EN55011 (CISP  EN61000-3-2  EN61000-3-3  Standard  EN61000-4-2  EN61000-4-3  EN61000-4-3	IL ANSI/AAMI ES6060 ndary-Earth:1xMOPP RH	Test Level / Note Class B Class B Class A  Test Level / Note Level 4, 15KV air; Level 4, 8KV conta Level 3, 10V/m(80MHz~2.7GHz) Table 9, 9~28V/m(385MHz~5.78GHz) Level 3, 2KV Level 4, 4KV/Line-FG; 2KV/Line-Lin Level 3, 10V Level 4, 30A/m 100% dip 1 periods, 30% dip 25 periods,			
AFETY &	VIBRATION OPERATING ALTITUDE Note. SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE ISOLATION RESISTANCE  EMC EMISSION  EMC IMMUNITY	10 ~ 500Hz, 2G 10min./1cycle, 3000 meters  UL60950-1,TUV EN60950-1,IE approved,TUV EN60601-1 app Primary-Secondary: 2xMOPP, I I/P-O/P:4KVAC I/P-FG:2KVA I/P-O/P, I/P-FG, O/P-FG:100M 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	period for 60min. each along  C60601-1, EAC TP TC 004, United Primary-Earth:1xMOPP, Second Color O/P-FG:1.5KVAC  Ohms / 500VDC / 25°C / 70%  Standard  EN55011 (CISP EN61000-3-2  EN61000-3-3  Standard  EN61000-4-2  EN61000-4-3  EN61000-4-5  EN61000-4-6  EN61000-4-8  EN61000-4-11	IL ANSI/AAMI ES6060 ndary-Earth:1xMOPP RH	Test Level / Note Class B Class B Class A  Test Level / Note Level 4, 15KV air; Level 4, 8KV conta Level 3, 10V/m(80MHz~2.7GHz) Table 9, 9~28V/m(385MHz~5.78GHz) Level 3, 2KV Level 4, 4KV/Line-FG; 2KV/Line-Lin Level 3, 10V Level 4, 30A/m			
SAFETY & EMC Note 9)	VIBRATION OPERATING ALTITUDE Note.0 SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION  EMC IMMUNITY	10 ~ 500Hz, 2G 10min./1cycle, 6 3000 meters  UL60950-1,TUV EN60950-1,IE approved,TUV EN60601-1 app Primary-Secondary: 2xMOPP, I I/P-O/P:4KVAC I/P-FG:2KVA I/P-O/P, I/P-FG, O/P-FG:100M 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  677.8K hrs min. MIL-HDBK-	period for 60min. each along  C60601-1, EAC TP TC 004, L roved  Primary-Earth:1xMOPP, Seco  C O/P-FG:1.5KVAC  Ohms / 500VDC / 25°C / 70%  Standard  EN55011 (CISP EN61000-3-2 EN61000-3-3  Standard  EN61000-4-2 EN61000-4-5 EN61000-4-5 EN61000-4-6 EN61000-4-8 EN61000-4-11	IL ANSI/AAMI ES6060 ndary-Earth:1xMOPP RH	Test Level / Note Class B Class B Class A  Test Level / Note Level 4, 15KV air; Level 4, 8KV conta Level 3, 10V/m(80MHz~2.7GHz) Table 9, 9~28V/m(385MHz~5.78GHz) Level 3, 2KV Level 4, 4KV/Line-FG; 2KV/Line-Lin Level 3, 10V Level 4, 30A/m 100% dip 1 periods, 30% dip 25 periods,			
SAFETY &	VIBRATION OPERATING ALTITUDE Note. SAFETY STANDARDS ISOLATION LEVEL WITHSTAND VOLTAGE ISOLATION RESISTANCE  EMC EMISSION  EMC IMMUNITY	10 ~ 500Hz, 2G 10min./1cycle, 3000 meters  UL60950-1,TUV EN60950-1,IE approved,TUV EN60601-1 app Primary-Secondary: 2xMOPP, I I/P-O/P:4KVAC I/P-FG:2KVA I/P-O/P, I/P-FG, O/P-FG:100M 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	period for 60min. each along  C60601-1, EAC TP TC 004, L roved  Primary-Earth:1xMOPP, Seco  C O/P-FG:1.5KVAC  Ohms / 500VDC / 25°C / 70%  Standard  EN55011 (CISP EN61000-3-2 EN61000-3-3  Standard  EN61000-4-2 EN61000-4-5 EN61000-4-5 EN61000-4-6 EN61000-4-8 EN61000-4-11  217F (25°C)  14" inch	IL ANSI/AAMI ES6060 ndary-Earth:1xMOPP RH	Test Level / Note Class B Class B Class A  Test Level / Note Level 4, 15KV air; Level 4, 8KV conta Level 3, 10V/m(80MHz~2.7GHz) Table 9, 9~28V/m(385MHz~5.78GHz) Level 3, 2KV Level 4, 4KV/Line-FG; 2KV/Line-Line Level 3, 10V Level 4, 30A/m 100% dip 1 periods, 30% dip 25 periods,			

- 3. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 µf & 47 µf parallel capacitor.
- 4. Tolerance: includes set up tolerance, line regulation and load regulation.
- NOTE
- 5. Touch current was measured from primary input to DC output.

  6. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).

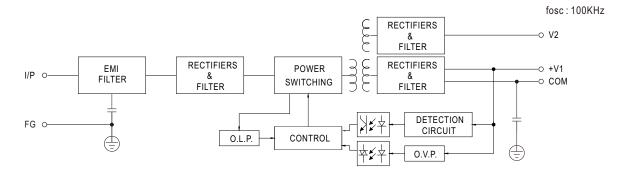
  7. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the set up time.

  8. Heat Sink HS1,HS2 can not be shorted.

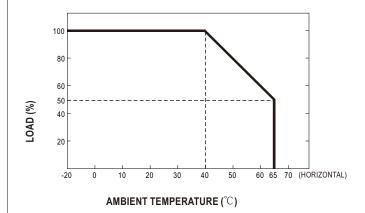
  - 9. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 360mm\*360mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on http://www.meanwell.com)



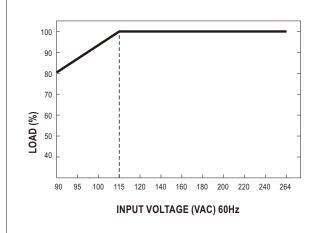
### ■ Block Diagram



# ■ Derating Curve



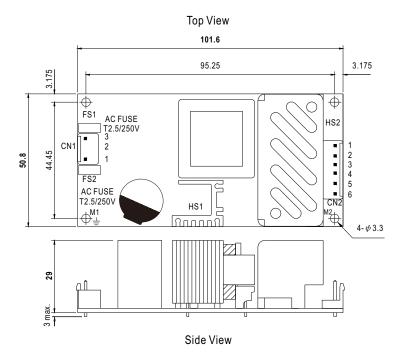
# ■ Output Derating VS Input Voltage



Unit:mm



### ■ Mechanical Specification



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

Pin No.	Assignment	Mating Housing	Terminal
1	AC/N	ICTVIID	JST SVH-21T-P1.1 or equivalent
2	No Pin	JST VHR or equivalent	
3	AC/L	3. 344.7410111	

# DC Output Connector (CN2): JST B6P-VH or equivalent

	Pin No.	Assignment	Mating Housing	Terminal
	1,2	V1	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
Ī	3,4	COM		
Ī	5	V2		
	6	NC		

# $\pm$ : Grounding Required



1.HS1,HS2 cannot be shorted.

2.M1 is safety ground. For better EMC performance, Please secure an electrical connection between M1,M2 and chassis grounding.

#### ■ Installation Manual

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