ROD
TECHNOLOGY
Catalog 2018

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RRD15 SERIES

15 Watts

KEY FEATURES

- ♦ RoHS Compliant
- ◆ Load Regulation <±1%
- ◆ 1500VDC Isolation
- ♦ Efficiency Up To 88%
- ◆ 1:4 Wide Voltage Input
- ◆ UL 94V-0 Package Material
- ◆ Continues Short Circuit Protect
- Metal Shell
- ◆ 12V,24V & 48V Input
- ◆ 3.3V,5V,12V,15V,±5V,±12V & ±15V Output
- Output Overvoltage Protection And Current Limiting
- ♦ 1X2 Inch Industry Standard Pins And Package





SELECTION GUIDE

		Input Voltage		Output	Output	Maximum	Efficiency
Order Code	Nominal	Range	Max	Voltage	Current	Capacitive Load	Efficiency
		V		V	Α	uF	Min
RRD12-H12S03B	12	9~18	22	3.3	3.6	6800	81%
RRD15-H12S05B	12	9~18	22	5	3	4700	82%
RRD15-H12S12B	12	9~18	22	12	1.25	690	83%
RRD15-H12S15B	12	9~18	22	15	1	470	84%
RRD15-H12B05B	12	9~18	22	±5	±1.5	±680	82%
RRD15-H12B12B	12	9~18	22	±12	±0.63	±330	84%
RRD15-H12B15B	12	9~18	22	±15	±0.5	±110	84%
RRD12-H24S03B	24	18~36	40	3.3	3.6	6800	81%
RRD15-H24S05B	24	18~36	40	5	3	4700	84%
RRD15-H24S12B	24	18~36	40	12	1.25	690	84%
RRD15-H24S15B	24	18 ~ 36	40	1,5	1	470 UF	84% Min
RRD15-H24B05B	24	18~36	40	±5	±1.5	±680	83%
RRD15-H24B12B	24	18~36	40	±12	±0.63	±330	84%
RRD15-H24B15B	24	18~36	40	±15	±0.5	±110	84%
RRD12-H48S03B	48	36~72	80	3.3	3.6	6800	81%
RRD15-H48S05B	48	36~72	80	5	3	4700	84%
RRD15-H48S12B	48	36~72	80	12	1.25	690	85%
RRD15-H48S15B	48	36~72	80	15	1	470	85%
RRD15-H48B05B	48	36~72	80	±5	±1.5	±680	83%
RRD15-H48B12B	48	36~72	80	±12	±0.63	±330	84%
RRD15-H48B15B	48	36~72	80	±15	±0.5	±110	84%
RRD15-Q24S05B	24	9~36	40	5	3	4700	88%
RRD15-Q24S12B	24	9~36	40	12	1.25	690	87%
RRD15-Q24S15B	24	9~36	40	15	1	470	88%
RRD15-Q24B05B	24	9~36	40	±5	±1	±680	84%
RRD15-Q24B12B	24	9~36	40	±12	±0.62	±330	86%
RRD15-Q24B15B	24	9~36	40	±15	±0.5	±110	86%
RRD15-Q48S05B	48	18~72	80	5	3	4700	88%
RRD15-Q48S12B	48	18~72	80	12	1.25	690	87%
RRD15-Q48S15B	48	18~72	80	15	1	470	88%
RRD15-Q48B05B	48	18~72	80	±5	±1	±680	84%
RRD15-Q48B12B	48	18~72	80	±12	±0.62	±330	86%
RRD15-Q48B15B	48	18~72	80	±15	±0.5	±110	87%

All specifications typical at TA=25°C, nominal input voltage and rated output current unless otherwise specified.

ROHS COMPLIANCE INFORMATION



This series is compatible with RoHS soldering systems with a peak wave solder temperature of 300°C for 10 seconds. The pin termination finish on the SIP package type is Tin Plate, Hot Dipped over Matte Tin with Nickel Preplate.





RRD15 SERIES

15 Watts

INPUT CHARACTERISTICS

Parameter	Conditions	Min.	Тур.	Max.	Units
Starting Voltage	48V(18~72V) input types	9.2	9.5	9.8	
Starting voltage	24V(9~36V) input types			18	V
Under Voltage Protection	24V(9~36V) input types			8.5	V
Onder voltage Frotection	48V(18~72V) input types			17	
Starting Time	Output Voltage Rise Time 5%~100%	20			mS

OUTPUT CHARACTERISTICS

Parameter	Conditions		Тур.	Max.	Units	
Rated Power	TA=-25°C to +55°C,Full Load,RRD15 Series			15	W	
Voltage Set Point Accuracy	Positive Output (10%-100% Load, Vin=Rated Input)		±0.5	±1		
voltage det i dilit Accuracy	Negative Output (+Vout=100% Load,-Vin=25%~100% Load)		±1	±3		
Line Regulation	High Vin to Low Vin		±0.1	±0.2	%	
Load Regulation	10%-100% Load, Single Output Types		±0.25	±0.5		
Load Regulation	10%-100% Load,Bipolar Output Types		±0.5	±1		
Diamin O Nicion	BW=DC to 20MHz,3.3V Output Types		30	50		
Ripple & Noise	BW=DC to 20MHz,All Other Output Types		50	120	mV p-p	
Over Current Protection	High Vin to Low Vin	120% Rated Max Currrent, Auto-Recovery		ecovery		
Over Voltage Protection	High Vin to Low Vin	Zener/Transorb Clamp				
Transient Overshoot Scope	25%-50%-25%;50%-75%-50%;75%-100%-75%Load	%-100%-75%Load ±5		%		
Transient Recovery Time	25%-50%-25%;50%-75%-50%;75%-100%-75%Load	;75%-100%-75%Load		400	uS	

ISOLATION CHARACTERISTICS

Parameter	Conditions	Min.	Тур.	Max.	Units
Isolation test voltage	Flash tested for 60 second, leakage current<2mA	1500			VDC
Resistance	Viso= 500VDC	100			МΩ

TEMPERATURE CHARACTERISTICS

Parameter	Conditions	Min.	Тур.	Max.	Units
Storage Humidity	All output types	5		95	%
Specification Temperature	All output types, without derating	-25		+55	
Storage Temperature	All output types -40			+105	°C
Case temperature	All output types			85	
Temperature drift ratio	All output types		0.02		%/°C
Cooling	Free air convection	·			•

GENERAL CHARACTERISTICS

Parameter	Conditions	Min.	Тур.	Max.	Units
Switching frequency	All input types		200		KHz
Shell material	Achieve UL94-V0	6-Side Metal			



RRD15 SERIES

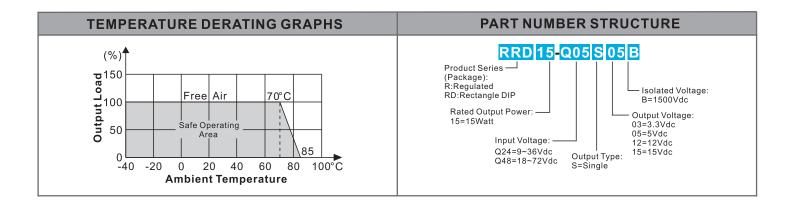
15 Watts

ABSOLUTE MAXIMUM RATINGS

→ |**←** 2.54(0.100)

Short-circuit protection	Continue , Self Recovery		
Lead temperature 1.5mm from case for	300°C		
Internal power dissipation	RLDJ15 Series	<1.5W	

PACKAGE SPECIFICATIONS MECHANICAL DIMENSIONS PIN CONNECTIONS Function Side View Front View **Bottem View** Pin Single Bipolar RRD10 Series 11.2(0.441) 5.08(0.200) 1 -Vin -Vin ROD ,000 2 +Vin +Vin ||||| || →|| 1.0(0.039) RRD15-Q24S05B 4(1. 3 +Vout +Vout DC-DC CONVERTER 57) 12. 5(0.492) 4 No Pin COMRRD15 5 -Vout -Vout 50.8(2.000) **→**|**4** 1.0(0.039) 20.32(0.800) Weight: 37g CTRL CTRL $All\ dimensions\ in\ inches\ \pm0.01\ (mm\ \pm0.25mm).\ All\ pins\ on\ a\ 0.1\ (2.54)\ pitch\ and\ within\ \pm0.01\ (0.25)\ of\ true\ position.$ Notes:"*"Option RECOMMENDED FOOTPRINT DETAILS **TUBE OUTLINE DIMENSIONS** 6 Though Holes Ø1.5(0.059) 54.3(2.138) 21.0(0.827) Top View <u>**♦**0.6(0.</u>024) 12.8(0.504) Unless otherwise stated all dimensions in inches (mm)±0.5mm. Tube Length: 20.47(520mm±2mm) Tube Quantity: 18PCS



*CTRL:You can option positive & negative polarity. If you have any questions,please visit <u>www.rodtech.cn,or</u> contact us.



RRA5 SERIES

5 Watts

KEY FEATURES

- ♦ RoHS Compliant
- ◆ AC Or DC Wide Voltage Input
- ♦ Single ,Bipolar & Dual Output
- ◆ 2000VAC Basic Isolation(1Minute)
- ♦ Efficiency Up To 86%
- ◆ Over Current Protect
- ◆ Continues Short Circuit Protect
- ♦ Operating Temperature Range -25°C To +70°C
- ♦ Small Size Plastic Shell
- ♦ UL 94V-0 Package Material
- ♦ No-load Loss As Low As 50mW





SELECTION GUIDE

	Input \	/oltage	Output	Output	Efficiency	Output C	apacitive	
Order Code	Nominal	Range	Voltage	Current	Linciency	C1,C3	C2,C4	
	VA	AC	V	Α	Min(%)	u	F	
RRA5-W220S05A	220	85~265	5	1	82%	330/16V	0.1/25V	
RRA5-W220S12A	220	85~265	12	0.42	85%	220/25V	0.1/25V	
RRA5-W220S15A	220	85~265	15	0.33	86%	220/25V	0.1/25V	
RRA5-W220S24A	220	85~265	24	0.21	86%	100/35V	0.1/35V	
RRA5-W220B05A	220	85~265	±5	±0.5	78%	220/16V	0.1/25V	
RRA5-W220B12A	220	85~265	±12	±0.21	79%	100/25V	0.1/25V	
RRA5-W220B15A	220	85~265	±15	±0.17	79%	100/25V	0.1/25V	
RRA5-W220D0505A	220	85~265	5/5	0.2/0.8	75%	330/16V	0.1/25V	
RRA5-W220D0512A	220	85~265	12/5	0.2/0.5	76%	220/25V	0.1/25V	
RRA5-W220D0515A	220	85~265	15/5	0.2/0.4	76%	220/25V	0.1/25V	
RRA5-W220D0524A	220	85~265	24/5	0.1/0.5	76%	100/35V	0.1/35V	
All specifications typica	All specifications typical at TA=25°C, nominal input voltage and rated output current unless otherwise specified.							

INPUT CHARACTERISTICS

THE CONTRACTOR CONTRAC					
Parameter	Conditions		Тур.	Max.	Units
Starting Voltage	High Vin to Low Vin,0~100% Load	85		265	Vac
Starting voltage	High Vin to Low Vin,0~100% Load	100		380	Vdc
Starting Time	Output Voltage Rise 5%~100%	20			mS
Frequency		47		63	Hz

OUTPUT CHARACTERISTICS

Parameter	Conditions	Min.	Тур.	Max.	Units
Rated Power	TA=-25°C to +70°C,Full Load			5	W
Voltage Set Point Accuracy	10%-100% Load,Vin=Rated Input		±1	±3	
Line Regulation	High Vin to Low Vin,10%-100% Load		±0.5	±1	1
	10%-100% Load,All Output Types(First Output)		±1	±3	%
Load Regulation	10%-100% Load,Bipolar Output Types(Second Output)		±1	±2	1
	10%-100% Load, Dual Output Types (Second Output)	put Types(Second Output) ±0.5		±1	
	BW=DC to 20MHz, Output Voltage <9V Types		50	60	
Ripple & Noise	BW=DC to 20MHz,12V &15V Output Types		50	120	mV p-p
	BW=DC to 20MHz, 24V Output Types		100	200	1
Over Current Protection	High Vin to Low Vin	120% Rated Max Currrent, Auto-Recovery			ecovery
Transient Overshoot Scope	25%-50%-25%;50%-75%-50%;75%-100%-75%Load			±5	%
Transient Recovery Time	25%-50%-25%;50%-75%-50%;75%-100%-75%Load	400		uS	



RAS5 SERIES

5 Watts

ABSOLUTE MAXIMUM RATINGS

Short-circuit protection	Continue, Self Recovery		
Lead temperature 1.5mm from case for 10 seconds	300°C		
Internal power dissipation	<50mW		

ISOLATION CHARACTERISTICS

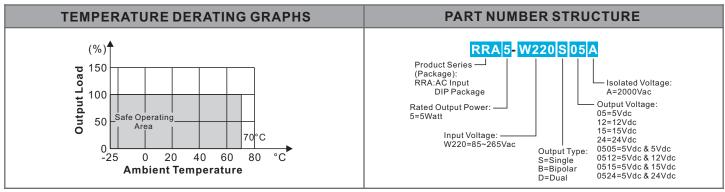
Parameter	Conditions	Min.	Тур.	Max.	Units
	Input-Output,1 Minute,Leakage Current<2mA	2000			
Isolation test voltage	Input-Shell,1 Minute,Leakage Current<2mA	2000	2000		VAC
	Output-Shell,1 Minute,Leakage Current<2mA	500			
Resistance	Viso= 500VDC	100			МΩ

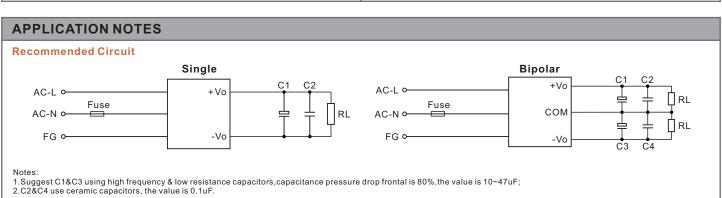
TEMPERATURE CHARACTERISTICS

Parameter	Conditions	Min.	Тур.	Max.	Units
Storage Humidity	All output types	25		95	%
Specification Temperature	All output types, without derating	-25		+70	
Storage Temperature	All output types	-30		+105	°C
Case temperature	All output types			95	
Temperature drift ratio	All output types		0.02		%/°C
Cooling	Free air convection	Free air convection			

GENERAL CHARACTERISTICS

Parameter	Conditions	Min.	Тур.	Max.	Units
Switching frequency	All input types		65		KHz
Shell material	Achieve UL94-V0		Black Fla	me Plastic	

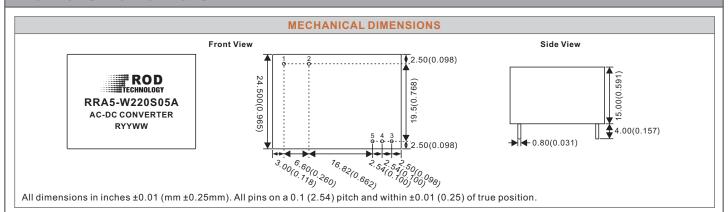


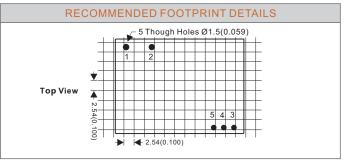


RAS5 SERIES

5 Watts

PACKAGE SPECIFICATIONS



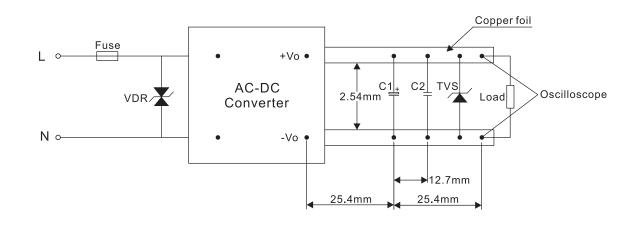


If you have any questions, please visit www.rodtech.cn, or contact us.

	PIN CONNECTIONS								
ſ									
	D:		Function						
	Pin	Single	Bipolar	Dual					
	1	AC-L	AC-L	AC-L					
	2	AC-N	AC-N	AC-N					
	3	+Vout	+Vout	+Vout1					
	4	NC	СОМ	СОМ					
	5	-Vout	-Vout	+Vout2					

Weight: 30g

RIPPLE & NOISE TEST



C1:47uF Electrolytic capacitor; C2:0.1uF MKP capacitor TVS:3.3V P6KE6.8A/5V P6KE7.5A/12V P6KE18A/15V P6KE22A/24V P6KE33A

RoHS COMPLIANCE INFORMATION



This series is compatible with RoHS soldering systems with a peak wave solder temperature of 300°C for 10 seconds. The pin termination finish on the DIP package type is Tin Plate, Hot Dipped over Matte Tin with Nickel Preplate.

SINGLE OUTPUT DIN RAIL AC-DC SWITCHING POWER SUPPLY



RPB15 SERIES

15 Watts





KEY FEATURES

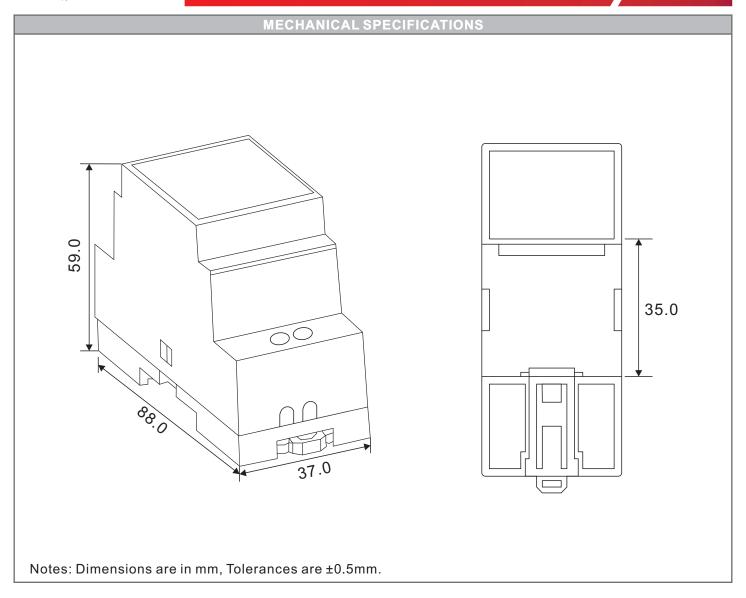
- ♦ Designed For Power Industry Applications
- ♦ The Rated Output Power Of Up To 15W
- ◆ Input Voltage:90~265VAC
- ◆ Output Voltage:+12V,+24V or +36Vdc
- ♦ Efficiency Up To 87%
- ◆ Isolation Voltage > 3000VAC/1min/5mA
- ◆ Output Over Current & Output Short Current Protection
- Free Air Cooling
- ◆ 1-Years Product Warranty
- ♦ Dimension: 88(L) x 37(W) x 59(H) mm

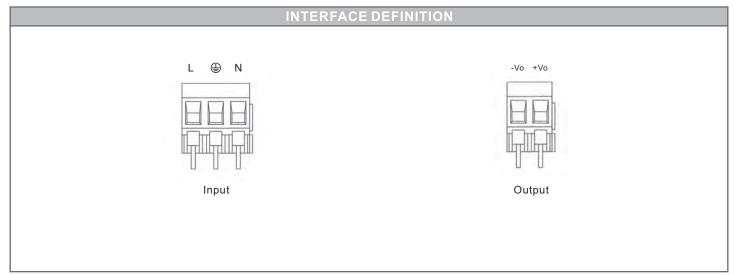
ELECTRICAL SPECIFICATIONS

	Model No.	RPB15-W220S12B	RPB15-W220S24B	RPB15-W220S36B	Units		
	Rating Voltage	220					
	Voltage Range	90~265					
Input	Frequency	47~63			Hz		
	Current(Full Load)	<1.0			А		
	Power Factor(Full Load at 220VAC)	>0.5					
	Inrush Current(at 220VAC /Cold start)	<5 / Full Load			А		
	Rating Voltage	12	24	36	VDC		
	Voltage Range	12.0~12.6	24.0~24.6	36.0~36.6	VDC		
	Minimum Current	0	0	0	Α		
Output	Maximum Current	1.25	0.63	0.42	Α		
Output	Line Regulation(Max)	±1	±1	±1	%		
ľ	Load Regulation(Max)	±1	±1	±1	%		
	Ripple&Noise*(Max)	100	150	200	mVp-p		
[Efficiency (at 220VAC / Full Load)	>84	>86	>87	%		
	Hold-Up Time (at 230VAC / Full Load)	15			mS		
	Overshoot at Turn-on and Turn-off	<10%Vo					
Protection	Output Over Current Protection	Automatic Power Limite	ed				
	Output Short Circuit Protection	Continue, No Damage, Auto Recovery					
laalatian L	Input-Output	3000VAC/<5mA/60S (Without Arcing, Without Breakdown)					
	Input-Earth	3000VAC/<5mA/60S (Without Arcing, Without Breakdown)					
voltage	Output-Earth	500VAC/<5mA/60S (Without Arcing, Without Breakdown)					
	Input-Output	≥10MΩ (Isolation Voltage 500Vdc)					
Isolation	Input-Earth	≥10MΩ (Isolation Voltage 500Vdc)					
Resistance	Output-Earth	≥10MΩ (Isolation Volta	ge 500Vdc)				
	Leakage Current(Vin=220Vac,50Hz)	≤3mA					
	Operating Temperature	-40°C~+70°C(See Dera	ating Graphs)				
	Storage Temperature	-55°C~+105°C					
Environment	Altitude	≤3000M					
	Humidity	10%~90% RH					
	Case Material	Option Aluminum					
	Vibration Testing	20G,5~100Hz,3axes					
Dhusiaal	MTBF	≥100000 Hr @ 25°C (M	IIL-HDBK-217F)				
Physical	Dimension	88(L) x 37(W) x 59(H) n	nm				
	Weight	230g					
	Cooling Method	Free Air Cooling					
Safety	Agency Approvals	Design Refer To EN609	050,CE				
-	EMI Conducted & Radiated	Design Refer To EN550					
EMC	EMS(Noise Lmmunity)	Design Refer To EN 550					
	Harmonic Current	Design Refer To EN61000-3-2 CLASS A,EN61000-3-3,IEC61000-4-2/3/4/5/6/8/1					

- 1.All specifications valid at 220VAC input voltage, full load and +25°C after warm-up time unless otherwise stated.
- 2. Ripple & Noise are measured at 20MHz of bandwidth with 0.1 uF/50V (metal film capacitors) & 47 uF/50V (electrolytic capacitor).

RPB15 SERIES





60W SINGLE OUTPUT AC-DC DIN RAIL POWER SUPPLY



RP60 SERIES

60 Watts





KEY FEATURES

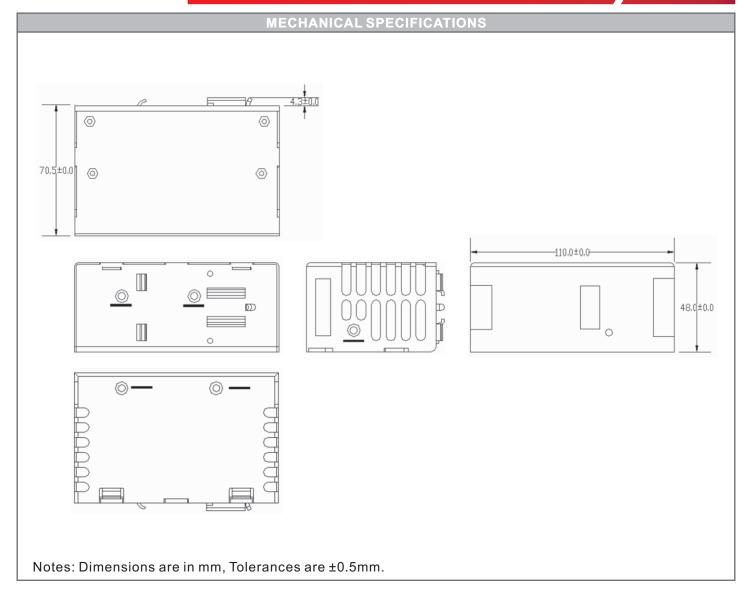
- ♦ Designed For Power Industry Applications
- ♦ The Rated Output Power Of Up To 60W
- ◆ Input Voltage:90~265VAC
- ◆ Output Voltage:+12V,+24V, +48V or +60Vdc
- ♦ Efficiency Up To 90%
- ◆ Isolation Voltage > 3000VAC/1min/5mA
- Output Over Current & Output Short Current Protection
- Free Air Cooling
- ◆ 2-Years Product Warranty
- ♦ Dimension: 110(L) x 48(W) x 75(H) mm

ELECTRICAL SPECIFICATIONS

	Model No.	RP60-W220S12B	RP60-W220S24B	RP60-W220S48B	RP60-W220S60B	Units		
	Rating Voltage	220(110~240)				VAC		
	Voltage Range	90~265						
Input	Frequency	47~63				Hz		
	Current(Full Load)	<1.5				Α		
	Power Factor	>0.5						
	Inrush Current(at 220VAC /Cold start)	<5 / Full Load				Α		
	Rating Voltage	12	24	48	60	VDC		
	Voltage Range	11.8~12.2	23.5~24.5	47.5~48.5	59.5~60.5	VDC		
	Trim	±10				%		
	Minimum Current	0	0	0	0	Α		
Output	Maximum Current	5.0	2.5	1.25	1.0	Α		
	Line Regulation(Max)	±1	±1	±1	±1	%		
	Load Regulation(Max)	±1	±1	±1	±1	%		
	Ripple&Noise*(Max)	50	120	200	200	mVp-p		
	Efficiency (at 220VAC / Full Load)	>85	>87	>88	>90	%		
	Hold-Up Time (at 230VAC / Full Load)	15				mS		
	Overshoot at Turn-on and Turn-off	<10%Vo						
Protection	Output Over Current Protection	Automatic Power	Limited					
	Output Short Circuit Protection	Continue, No Damage, Auto Recovery						
	Input-Output	3000VAC/<5mA/60S (Without Arcing, Without Breakdown)						
Isolation Voltage	Input-Earth	3000VAC/<5mA/60S (Without Arcing, Without Breakdown)						
voltage	Output-Earth	500VAC/<5mA/60	S (Without Arcing,	Without Breakdow	n)			
	Input-Output	≥10MΩ (Isolation	Voltage 500Vdc)					
Isolation	Input-Earth	≥10MΩ (Isolation	Voltage 500Vdc)					
Resistance	Output-Earth	≥10MΩ (Isolation	Voltage 500Vdc)					
	Leakage Current(Vin=220Vac,50Hz)	≤3mA						
	Operating Temperature	-40°C~+70°C(See	e Derating Graphs))				
	Storage Temperature	-55°C~+105°C						
Environment	Altitude	≤3000M						
	Humidity	10%~90% RH						
	Case Material	Aluminium and Iro	n					
	Vibration Testing	20G,5~100Hz,3ax	xes					
Physical	MTBF	≥100000 Hr @ 25	°C (MIL-HDBK-217	7F)				
Physical	Dimension	110(L) x 48(W) x 7	75(H) mm					
	Weight	400g						
	Cooling Method	Free Air Cooling						
Safety	Agency Approvals	Design Refer To E	N60950,CE					
	EMI Conducted & Radiated	Design Refer To E	N55022 CLASS A					
EMC	EMS(Noise Lmmunity)	Design Refer To E	N 55024					
		Design Refer To EN61000-3-2 CLASS A, EN61000-3-3, IEC61000-4-2/3/4/5/6/8/11						

- $1. All\ specifications\ valid\ at\ 220 VAC\ input\ voltage,\ full\ load\ and\ +25^{\circ}C\ after\ warm-up\ time\ unless\ otherwise\ stated.$
- 2. Ripple & Noise are measured at 20MHz of bandwidth with 0.1 uF/50V (metal film capacitors) & 47 uF/50V (electrolytic capacitor).

RP60 SERIES



120W SINGLE OUTPUT AC-DC DIN RAIL POWER SUPPLY



RP120 SERIES

120 Watts





KEY FEATURES

- ♦ Designed For Power Industry Applications
- ◆ The Rated Output Power Of Up To 120W
- Input Voltage:90~265VAC
- Output Voltage:+12V,+24V, +48V or +60Vdc
- Efficiency Up To 91%
- Isolation Voltage > 3000VAC/1min/5mA
- Output Over Current & Output Short Current Protection
- Free Air Cooling
- 2-Years Product Warranty
- Dimension: 110(L) x 48(W) x 90(H) mm

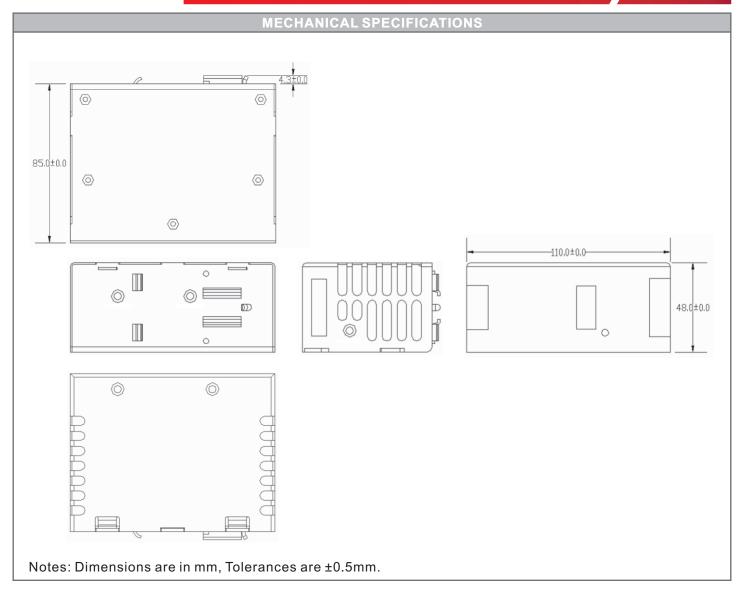
ELECTRICAL SPECIFICATIONS

	Model No.		RP120-W220S24B	RP120-W220S48B	RP120-W220S60B	Units		
	Rating Voltage	220(110~240)				VAC		
	Voltage Range	90~265						
Input	Frequency	47~63				Hz		
	Current(Full Load)	<1.5				Α		
	Power Factor	>0.5						
	Inrush Current(at 220VAC /Cold start)	<5 / Full Load				Α		
	Rating Voltage	12	24	48	60	VDC		
	Voltage Range	11.8~12.2	23.5~24.5	47.5~48.5	59.5~60.5	VDC		
	Trim	±10				%		
	Minimum Current	0	0	0	0	Α		
Output	Maximum Current	10.0	5.0	2.50	2.0	Α		
	Line Regulation(Max)	±1	±1	±1	±1	%		
	Load Regulation(Max)	±1	±1	±1	±1	%		
	Ripple&Noise*(Max)	50	120	200	200	mVp-p		
Ī	Efficiency (at 220VAC / Full Load)	>86	>88	>90	>91	%		
	Hold-Up Time (at 230VAC / Full Load)	20						
	Overshoot at Turn-on and Turn-off	<10%Vo			-			
Protection	Output Over Current Protection	Automatic Power	Limited					
	Output Short Circuit Protection	Continue, No Damage, Auto Recovery						
Inclotion	Input-Output	3000VAC/<5mA/60S (Without Arcing, Without Breakdown)						
	Input-Earth	3000VAC/<5mA/60S (Without Arcing, Without Breakdown)						
voltage	Output-Earth	500VAC/<5mA/60S (Without Arcing, Without Breakdown)						
	Input-Output	≥10MΩ (Isolation Voltage 500Vdc)						
Isolation	Input-Earth	≥10MΩ (Isolation	Voltage 500Vdc)					
Resistance	Output-Earth	≥10MΩ (Isolation	Voltage 500Vdc)					
	Leakage Current(Vin=220Vac,50Hz)	≤3mA						
	Operating Temperature		e Derating Graphs)				
	Storage Temperature	-55°C~+105°C						
Invironment	Altitude	≤3000M						
	Humidity	10%~90% RH						
	Case Material	Aluminium and Iro	on					
	Vibration Testing	20G,5~100Hz,3a	xes					
D	MTBF	≥100000 Hr @ 25	°C (MIL-HDBK-21	7F)				
Physical	Dimension	110(L) x 48(W) x 9	90(H) mm	,				
	Weight	500g	. ,					
	Cooling Method	Free Air Cooling						
Safety	Agency Approvals	Design Refer To E	N60950,CE					
	EMI Conducted & Radiated	_	N55022 CLASS A					
EMC	EMS(Noise Lmmunity)	Design Refer To E						
EMC	Harmonic Current	Design Refer To E						

- 1.All specifications valid at 220VAC input voltage, full load and +25°C after warm-up time unless otherwise stated.

 2.Ripple & Noise are measured at 20MHz of bandwidth with 0.1uF/50V(metal film capacitors) & 47uF/50V(electrolytic capacitor).

RP120 SERIES



30W SINGLE OUTPUT AC-DC SWITCHING POWER SUPPLY



RPA30 SERIES

30 Watts





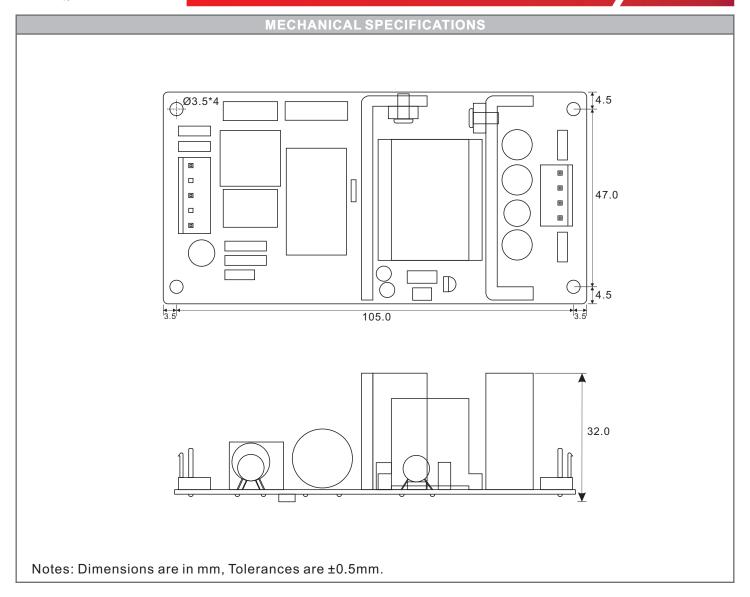
KEY FEATURES

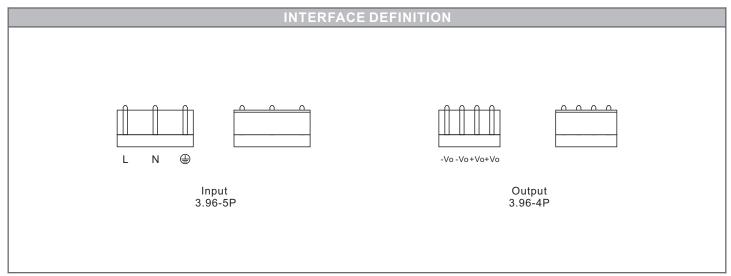
- ♦ Designed For Power Industry Applications
- ♦ The Rated Output Power Of Up To 30W
- ◆ Input Voltage:90~265VAC
- ◆ Output Voltage:+5V,+12V or +24Vdc
- ♦ Efficiency Up To 86%
- ◆ Isolation Voltage > 3000VAC/1min/5mA
- ♦ Output Over Current & Output Short Current Protection
- ◆ Free Air Cooling
- ◆ 1-Years Product Warranty
- ♦ Dimension: 112(L) x 56(W) x 32(H) mm

ELECTRICAL SPECIFICATIONS

	Model No.	RPA30-W220S05B	RPA30-W220S12B	RPA30-W220S24B	Units		
	Rating Voltage	220			VAC		
	Voltage Range	90~265			VAC		
Input	Frequency	47~63			Hz		
	Current(Full Load)	<1.0			А		
	Power Factor	>0.5					
	Inrush Current(at 220VAC /Cold start)	<5 / Full Load			А		
	Rating Voltage	5	12	24	VDC		
	Voltage Range	4.9~5.1	11.8~12.2	23.5~24.5	VDC		
	Minimum Current	0	0	0	Α		
0	Maximum Current	6.0	2.5	1.25	А		
Output	Line Regulation(Max)	±1	±1	±1	%		
	Load Regulation(Max)	±1	±1	±1	%		
	Ripple&Noise*(Max)	50	120	200	mVp-p		
	Efficiency (at 220VAC / Full Load)	>83	>85	>86	%		
	Hold-Up Time (at 230VAC / Full Load)	15			mS		
	Overshoot at Turn-on and Turn-off	<10%Vo					
Protection	Output Over Current Protection	Automatic Power Limited					
	Output Short Circuit Protection	Continue, No Damage,	Auto Recovery				
	Input-Output	3000VAC/<5mA/60S (Without Arcing, Without Breakdown)					
Isolation Voltage	Input-Earth	3000VAC/<5mA/60S (Without Arcing, Without Breakdown)					
Voltage	Output-Earth	500VAC/<5mA/60S (W	ithout Arcing, Without Br	eakdown)			
	Input-Output	≥10MΩ (Isolation Volta	ige 500Vdc)	10Vdc)			
Isolation	Input-Earth	≥10MΩ (Isolation Voltage 500Vdc)					
Resistance	Output-Earth	≥10MΩ (Isolation Volta	ige 500Vdc)				
	Leakage Current(Vin=220Vac,50Hz)	≤3mA					
	Operating Temperature	-40°C~+70°C(See Dera	ating Graphs)				
	Storage Temperature	-55°C~+105°C					
Environment	Altitude	≤3000M					
	Humidity	10%~90% RH					
	Case Material	Option Aluminum					
	Vibration Testing	20G,5~100Hz,3axes					
Physical	MTBF	≥100000 Hr @ 25°C (M	IIL-HDBK-217F)				
Filysical	Dimension	112(L) x 56(W) x 32(H)	mm				
	Weight	230g					
	Cooling Method	Free Air Cooling					
Safety	Agency Approvals	Design Refer To EN609	950,CE				
	EMI Conducted & Radiated	Design Refer To EN550)22 CLASS A				
EMC	EMS(Noise Lmmunity)	Design Refer To EN 55	024				
	Harmonic Current	Design Refer To EN610	000-3-2 CLASS A,EN610	00-3-3,IEC61000-4-2/3	/4/5/6/8/11		

- 1.All specifications valid at 220VAC input voltage, full load and +25°C after warm-up time unless otherwise stated.
- $2. Ripple \&\ Noise\ are\ measured\ at\ 20 MHz\ of\ bandwidth\ with\ 0.1 uF/50 V (metal\ film\ capacitors)\ \&\ 47 uF/50 V (electrolytic\ capacitor).$





60W SINGLE OUTPUT AC-DC SWITCHING POWER SUPPLY



RPA60 SERIES

60 Watts





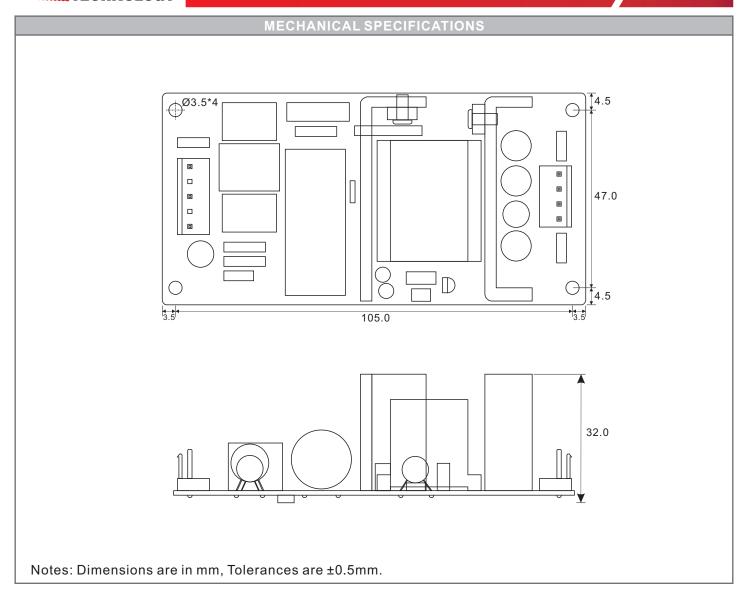
KEY FEATURES

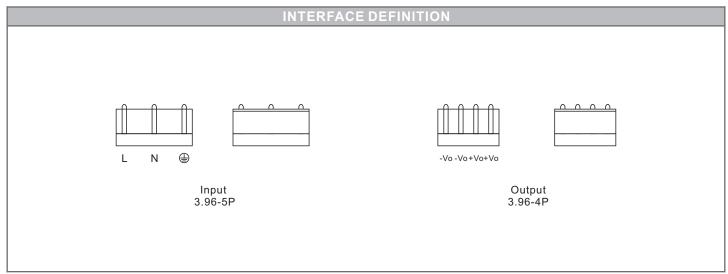
- ♦ Designed For Power Industry Applications
- ♦ The Rated Output Power Of Up To 60W
- ◆ Input Voltage:90~265VAC
- Output Voltage:+5V,+12V or +24Vdc
- ♦ Efficiency Up To 87%
- ◆ Isolation Voltage > 3000VAC/1min/5mA
- ♦ Output Over Current & Output Short Current Protection
- Free Air Cooling
- ◆ 1-Years Product Warranty
- ♦ Dimension: 112(L) x 56(W) x 32(H) mm

ELECTRICAL SPECIFICATIONS

	Model No.	RPA60-W220S05B	RPA60-W220S12B	RPA60-W220S24B	Units		
	Rating Voltage	220		•	VAC		
	Voltage Range	90~265					
Input	Frequency	47~63			Hz		
	Current(Full Load)	<1.0			А		
	Power Factor	>0.5					
	Inrush Current(at 220VAC /Cold start)	<5 / Full Load			А		
	Rating Voltage	5	12	24	VDC		
	Voltage Range	4.9~5.1	11.8~12.2	23.5~24.5	VDC		
	Minimum Current	0	0	0	А		
Output	Maximum Current	12.0	5.0	2.5	А		
Output	Line Regulation(Max)	±1	±1	±1	%		
	Load Regulation(Max)	±1	±1	±1	%		
	Ripple&Noise*(Max)	50	120	200	mVp-p		
	Efficiency (at 220VAC / Full Load)	>82	>85	>87	%		
	Hold-Up Time (at 230VAC / Full Load)	15			mS		
	Overshoot at Turn-on and Turn-off	<10%Vo					
Protection	Output Over Current Protection	Automatic Power Limite	ed				
	Output Short Circuit Protection	Continue, No Damage,	Auto Recovery				
laclation	Input-Output	3000VAC/<5mA/60S (Without Arcing, Without Breakdown)					
Isolation Voltage	Input-Earth	3000VAC/<5mA/60S (Without Arcing, Without Breakdown)					
voitage	Output-Earth	500VAC/<5mA/60S (W	ithout Arcing, Without Br	eakdown)			
	Input-Output	≥10MΩ (Isolation Voltage 500Vdc)					
Isolation	Input-Earth	≥10MΩ (Isolation Voltage 500Vdc)					
Resistance	Output-Earth	≥10MΩ (Isolation Volta	ige 500Vdc)				
	Leakage Current(Vin=220Vac,50Hz)	≤3mA					
	Operating Temperature	-40°C~+70°C(See Dera	ating Graphs)				
	Storage Temperature	-55°C~+105°C					
Environment	Altitude	≤3000M					
	Humidity	10%~90% RH					
	Case Material	Option Aluminum					
	Vibration Testing	20G,5~100Hz,3axes					
Discolard	MTBF	≥100000 Hr @ 25°C (M	IIL-HDBK-217F)				
Physical	Dimension	112(L) x 56(W) x 32(H)	mm				
	Weight	230g					
	Cooling Method	Free Air Cooling					
Safety	Agency Approvals	Design Refer To EN609	950,CE				
-	EMI Conducted & Radiated	Design Refer To EN550					
EMC	EMS(Noise Lmmunity)	Design Refer To EN 550					
-	Harmonic Current	Design Refer To EN61000-3-2 CLASS A,EN61000-3-3,IEC61000-4-2/3/4/5/6/8/11					

- 1.All specifications valid at 220VAC input voltage, full load and +25°C after warm-up time unless otherwise stated.
- $2. Ripple \&\ Noise\ are\ measured\ at\ 20 MHz\ of\ bandwidth\ with\ 0.1 uF/50 V (metal\ film\ capacitors)\ \&\ 47 uF/50 V (electrolytic\ capacitor).$





60W SINGLE OUTPUT AC-DC SWITCHING POWER SUPPLY



RPD60 SERIES

60 Watts





KEY FEATURES

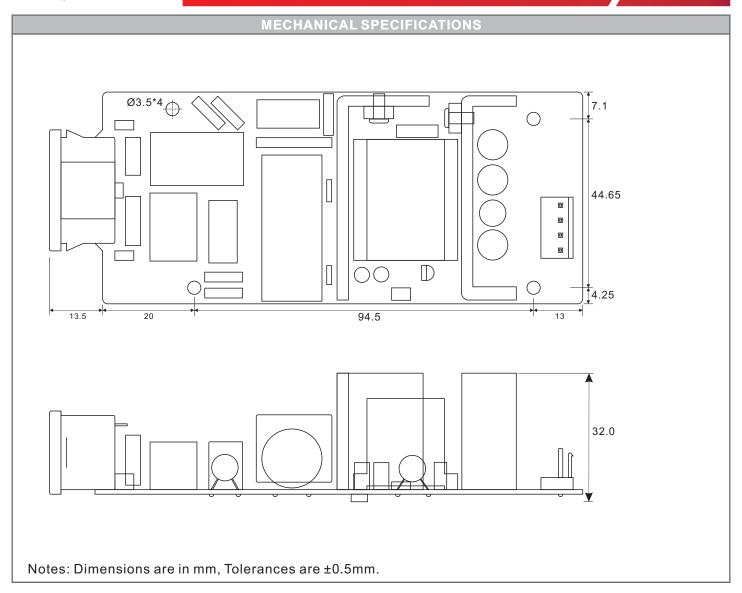
- ♦ Designed For Power Industry Applications
- ♦ The Rated Output Power Up To 60W
- ◆ Input Voltage:90~265VAC
- ◆ Output Voltage:+5V,+12V or +24Vdc
- ♦ Efficiency Up To 87%
- ◆ Isolation Voltage ≥ 4000VAC(1min/1mA)
- Output Over Current & Output Short Current Protection
- ◆ Free Air Cooling
- 2-Years Product Warranty
- ♦ Dimension: 141(L) x 56(W) x 32(H) mm

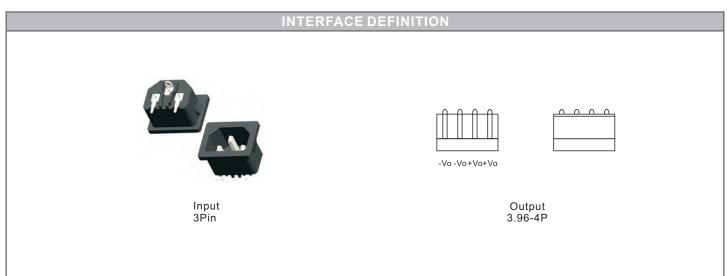
ELECTRICAL SPECIFICATIONS

	Model No.	RPD60-W220S05D	RPD60-W220S12D	RPD60-W220S24D	Units		
	Rating Voltage	220					
	Voltage Range	90~265					
Input	Frequency	47~63			Hz		
	Current(Full Load)	<1.0			А		
	Power Factor(Full Load)	>0.5					
	Inrush Current(at 220VAC /Cold start)	<5 / Full Load			А		
	Rating Voltage	5	12	24	VDC		
	Voltage Range	4.9~5.1	11.8~12.2	23.5~24.5	VDC		
	Minimum Current	0	0	0	Α		
Output	Maximum Current	12.0	5.0	2.5	А		
Output	Line Regulation(Max)	±1	±1	±1	%		
ļ	Load Regulation(Max)	±1	±1	±1	%		
	Ripple&Noise*(Max)	50	120	200	mVp-p		
	Efficiency (at 220VAC / Full Load)	>82	>85	>87	%		
	Hold-Up Time (at 230VAC / Full Load)	15					
	Overshoot at Turn-on and Turn-off	<10%Vo					
Protection	Output Over Current Protection	Automatic Power Limite	ed				
	Output Short Circuit Protection	Continue, No Damage,	Auto Recovery				
laalatian L	Input-Output	4000VAC/<1mA/60S (Without Arcing, Without Breakdown)					
	Input-Earth	1500VAC/<1mA/60S (Without Arcing, Without Breakdown)					
voltage	Output-Earth	500VAC/<1mA/60S (Without Arcing, Without Breakdown)					
	Input-Output	≥10MΩ (Isolation Voltage 500Vdc)					
Isolation	Input-Earth	≥10MΩ (Isolation Voltage 500Vdc)					
Resistance	Output-Earth	≥10MΩ (Isolation Volta	ge 500Vdc)				
	Leakage Current(Vin=220Vac,50Hz)	≤1mA					
	Operating Temperature	-40°C~+70°C(See Dera	ating Graphs)				
	Storage Temperature	-55°C~+105°C					
Environment	Altitude	≤3000M					
	Humidity	10%~90% RH					
	Case Material	Option Aluminum					
	Vibration Testing	20G,5~100Hz,3axes					
Dhusiaal	MTBF	≥100000 Hr @ 25°C (M	IIL-HDBK-217F)				
Physical	Dimension	141(L) x 56(W) x 32(H)	mm				
	Weight	240g					
	Cooling Method	Free Air Cooling					
Safety	Agency Approvals	Design Refer To EN609	050,CE				
-	EMI Conducted & Radiated	Design Refer To EN550					
EMC	EMS(Noise Lmmunity)	Design Refer To EN 550	024				
-	Harmonic Current	Design Refer To EN61000-3-2 CLASS A,EN61000-3-3,IEC61000-4-2/3/4/5/6/8/1					

- 1.All specifications valid at 220VAC input voltage, full load and +25°C after warm-up time unless otherwise stated.
- 2. Ripple & Noise are measured at 20MHz of bandwidth with 0.1 uF/50V (metal film capacitors) & 47 uF/50V (electrolytic capacitor).

RPD60 SERIES





120W SINGLE OUTPUT AC-DC SWITCHING POWER SUPPLY



RPA120 SERIES

120 Watts





KEY FEATURES

- ♦ Designed For Power Industry Applications
- ◆ The Rated Output Power Of Up To 120W
- ◆ Input Voltage:90~265VAC
- ◆ Output Voltage:+20V,+24V or +48Vdc
- ◆ Efficiency Up To 91%
- ◆ Isolation Voltage > 4000VAC/1min/1mA
- ♦ Output Over Current & Output Short Circuit Protection

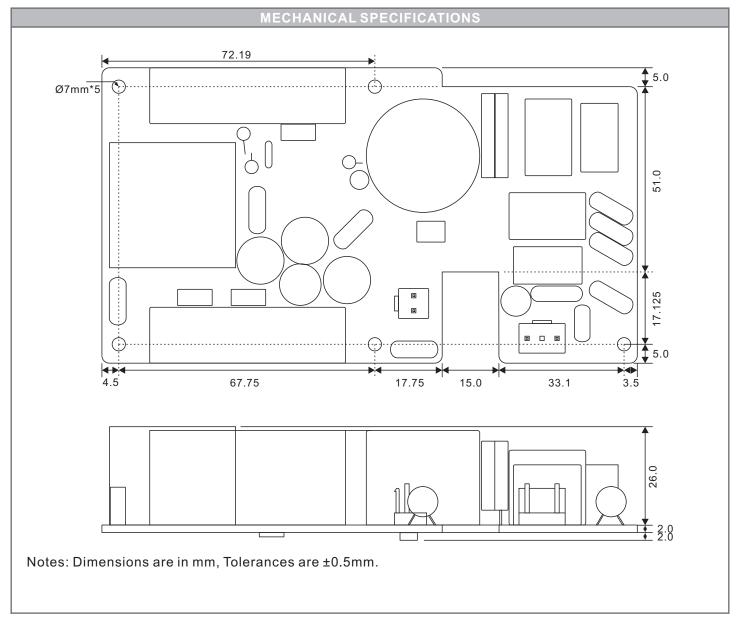
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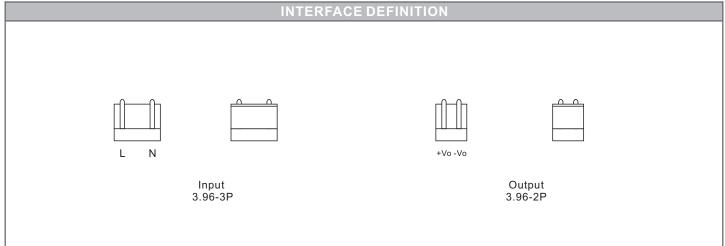
- ♦ Free Air Cooling
- ◆ 1-Years Product Warranty
- ◆ Dimension: 141.6(L) x 78.1(W) x 30(H) mm

ELECTRICAL SPECIFICATIONS

	Model No.	RPA120-W220S20B	RPA120-W220S24B	RPA120-W220S48B	Units		
	Rating Voltage	220			VAC		
	Voltage Range	90~265			VAC		
	Frequency	47~63			Hz		
Input	Current(Full Load)	<1.0			А		
	Power Factor	>0.5					
	Inrush Current(at 220VAC /Cold start)	<30 / Full Load			Α		
	Leakage Current	<1			mA		
	Rating Voltage	20	24	48	VDC		
	Voltage Range	20~20.5	24~24.5	48~49	VDC		
	Minimum Current	0	0	0	Α		
	Maximum Current	6.0	5.0	2.5	Α		
Output	Line Regulation(Max)	±0.5	±0.5	±0.5	%		
	Load Regulation(Max)	±1	±1	±1	%		
	Ripple&Noise*(Max)	100	120	200	mVp-p		
	Efficiency (at 220VAC / Full Load)	>85	>86	>88	%		
	Hold-Up Time (at 230VAC / Full Load)	20	<u>'</u>		mS		
	Overshoot at Turn-on and Turn-off	<10%Vo					
Protection	Output Over Current Protection	Auto Recovery,130~160% Rated Output Current					
	Output Short Circuit Protection	Continue, No Damage, Auto Recovery					
	Over Termperature Protection	Option(110°C±3°C)					
La a La Casa	Input-Output	4000VAC/<1mA/60S (Without Arcing, Without Breakdown)					
Isolation Voltage	Input-Earth	1500VAC/<1mA/60S (Without Arcing, Without Breakdown)					
voltage	Output-Earth	500VAC/<1mA/60S (W	ithout Arcing, Without Br	eakdown)			
	Input-Output	≥10MΩ (Isolation Volta	ige 500Vdc)				
Isolation	Input-Earth	≥10MΩ (Isolation Volta	ige 500Vdc)				
Resistance	Output-Earth	≥10MΩ (Isolation Volta	ige 500Vdc)				
	Leakage Current(Vin=220Vac,50Hz)	≤1mA					
	Operating Temperature	-25°C~+70°C(See Dera	ating Graphs)				
	Storage Temperature	-40°C~+105°C					
Invironment	Altitude	≤3000M					
	Humidity	10%~90% RH					
	Case Material	Option Aluminum					
	Vibration Testing	20G,5~100Hz,3axes					
Dhysiaal	MTBF	≥100000 Hr @ 25°C (M	IIL-HDBK-217F)				
Physical	Dimension	141.6(L) x 78.1(W) x 30	O(H) mm				
	Weight	400g					
	Cooling Method	Free Air Cooling					
Safety	Agency Approvals	Design Refer To EN609	950,CE,YY0505				
	EMI Conducted & Radiated	Design Refer To EN550)22 CLASS A,YY0505				
EMC	EMS(Noise Lmmunity)	Design Refer To EN 550	024,YY0505				
	Harmonic Current	Design Refer To EN61000-3-2 CLASS A, EN61000-3-3, IEC61000-4-2/3/4/5/6/8/1					

- 1.All specifications valid at 220VAC input voltage, full load and +25°C after warm-up time unless otherwise stated.
- $2. Ripple \&\ Noise\ are\ measured\ at\ 20 MHz\ of\ bandwidth\ with\ 0.1 uF/50V (metal\ film\ capacitors)\ \&\ 47 uF/50V (electrolytic\ capacitor).$





150W DUAL OUTPUT AC-DC SWITCHING POWER SUPPLY



RPB150 SERIES

150 Watts



KEY FEATURES

- ◆ EMI Filter
- The Rated Output Power Of Up To 180W
- Input Voltage:90~2640VAC
- Output Voltage:+48V/+12V
- Efficiency Up To 89%
- Isolation Voltage > 3000VAC/1min/1mA
- Output Over Current & Output Short Circuit Protection
- Free Air Cooling
- ♦ 2-Years Product Warranty
- ♦ Dimension: 250(L) x 75(W) x 38(H) mm

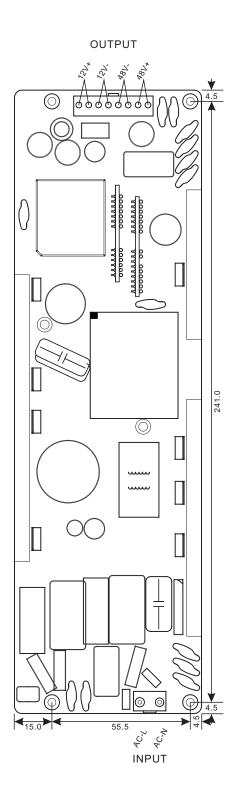
ELECTRICAL SPECIFICATIONS

	Model No.	RPB150-W220D4812B	Units		
	Rating Voltage	110~220	VAC		
	Voltage Range	90~264	VAC		
Input	Frequency	47~63	Hz		
	Current(Full Load)	<2.5	A		
	Power Factor(Full load)	>0.96			
	Inrush Current(at 220VAC /Cold start)	<40 / Full Load	A		
	Leakage Current	<1	mA		
	Rating Voltage(Vo1/Vo2)	+48/+12	VDC		
	Trim Range				
	Minimum Current	0/0	A		
	Maximum Current	2.5/3	A		
Output	Line Regulation(Max)	±1/±1	%		
	Load Regulation(Max)	±1/±1	%		
	Ripple&Noise*(Max)	150/100	mVp-p		
	Efficiency (at 220VAC / Full Load)	>89	%		
	Hold-Up Time (at 230VAC / Full Load)	>20	mS		
	Output Over Current Protection	Auto Recovery,120~150% Rated Output Current			
Protection	Output Short Circuit Protection	Continue, No Damage, Auto Recovery			
	Over Termperature Protection	Option(110°C±5°C)			
	Input-Output	3000VAC/<1mA/60S (Without Arcing, Without Breakdown	1)		
Isolation Voltage	Input-Earth	1500VAC/<1mA/60S (Without Arcing, Without Breakdown	1)		
voitage	Output-Earth	500VAC/<0.5mA/60S (Without Arcing, Without Breakdown)			
	Input-Output	≥10MΩ (Isolation Voltage 500Vdc)			
Isolation	Input-Earth	≥10MΩ (Isolation Voltage 500Vdc)			
Resistance	Output-Earth	≥10MΩ (Isolation Voltage 500Vdc)			
	Leakage Current(Vin=220Vac,50Hz)	≤1mA			
	Operating Temperature	-25°C~+70°C(See Derating Graphs)			
	Storage Temperature	-40°C~+105°C			
nvironment	Altitude	≤3000M			
	Humidity	10%~90% RH			
	Case Material	Aluminum			
	Vibration Testing	20G,5~100Hz,3axes			
	MTBF	≥100000 Hr @ 25°C (MIL-HDBK-217F)			
Physical	Dimension	250(L) x 75(W) x 38(H) mm			
	Weight	450g			
	Cooling Method	Free Air Cooling(See Derating Graphs)			
Cafata	Agency Approvals	Design Refer To EN60950, CE, YY0505			
Safety	EMI Conducted & Radiated	Design Refer To EN55022 CLASS A, YY0505			
	EMS(Noise Lmmunity)	Design Refer To EN 55024,YY0505			
EMC	Harmonic Current	Design Refer To EN61000-3-2 CLASS A, EN61000-3-3, IE	C61000-4-2/3/4/5/6/8/11		

- 1.All specifications valid at 220VAC input voltage, full load and +25°C after warm-up time unless otherwise stated.

 2.Ripple & Noise are measured at 20MHz of bandwidth with 0.1uF/50V(metal film capacitors) & 47uF/50V(electrolytic capacitor).

MECHANICAL SPECIFICATIONS



Notes: Dimensions are in mm, Tolerances are ±0.5mm.

120W SINGLE OUTPUT AC-DC SWITCHING POWER SUPPLY



RPC120 SERIES

120 Watts



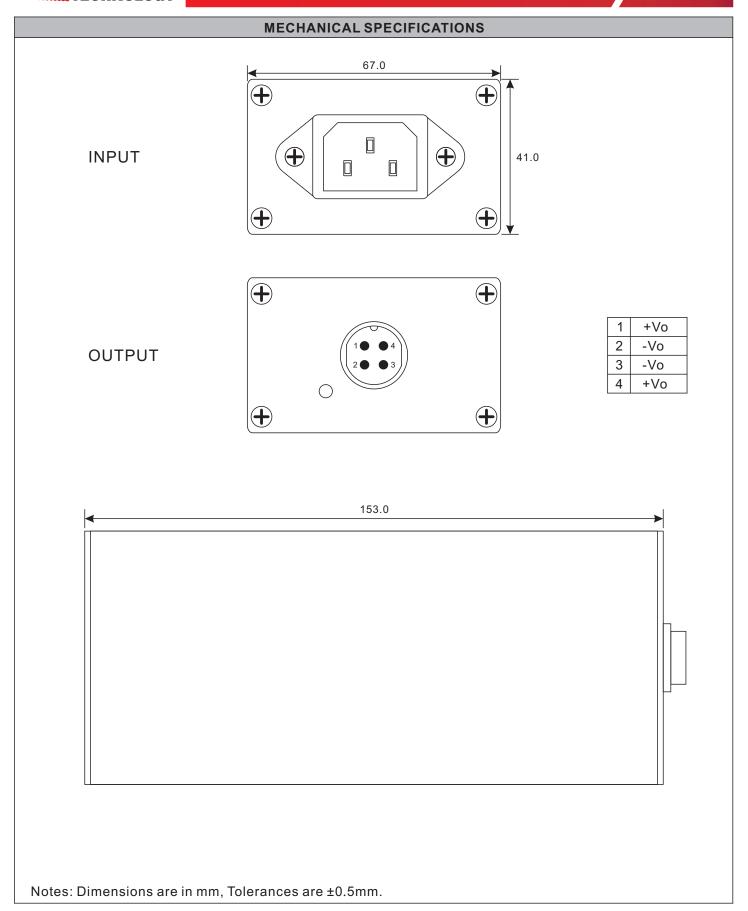
KEY FEATURES

- ◆ EMI Filter
- ♦ The Rated Output Power Of Up To 120W
- ◆ Input Voltage:90~264VAC
- ◆ Output Voltage:+24V;+48V;+60V
- ♦ Efficiency Up To 88%
- ◆ Isolation Voltage > 3000VAC/1min/1mA
- ♦ Output Over Current & Output Short Circuit Protection
- ♦ Free Air Cooling
- ♦ 2-Years Product Warranty
- ♦ Dimension: 153(L) x 67(W) x 41(H) mm

ELECTRICAL SPECIFICATIONS

	Model No.	RPC120-W220S24B	RPC120-W220S48B	RPC180-W220S60B	Units	
	Rating Voltage	110~220			VAC	
	Voltage Range	90~264			VAC	
	Frequency	47~63			Hz	
Input	Current(Full Load)	<1.6			Α	
	Power Factor(Full load)	>0.5				
Ī	Inrush Current(at 220VAC /Cold start)	<40 / Full Load			Α	
	Leakage Current	<1			mA	
	Rating Voltage(Vo1/Vo2)	+24	+48	+60	VDC	
	Trim Range					
	Minimum Current	0/0			Α	
	Maximum Current	5	2.5	2	Α	
Output	Line Regulation(Max)	±1/±1			%	
	Load Regulation(Max)	±1/±1			%	
İ	Ripple&Noise*(Max)	150	200	200	mVp-p	
	Efficiency (at 220VAC / Full Load)	>87	>87	>88	%	
	Hold-Up Time (at 230VAC / Full Load)	>20			mS	
Protection	Output Over Current Protection	Auto Recovery,120~150% Rated Output Current				
	Output Short Circuit Protection	Continue, No Damage, Auto Recovery				
	Over Termperature Protection	Option(110°C±5°C)				
	Input-Output	3000VAC/<1mA/60S (W	/ithout Arcing, Without Br	eakdown)		
Isolation	Input-Earth		/ithout Arcing, Without Br			
Voltage	Output-Earth	500VAC/<0.5mA/60S (Without Arcing, Without Breakdown)				
	Input-Output	≥10MΩ (Isolation Voltage 500Vdc)				
Isolation	Input-Earth	≥10MΩ (Isolation Voltage 500Vdc)				
Resistance	Output-Earth	≥10MΩ (Isolation Voltage 500Vdc)				
İ	Leakage Current(Vin=220Vac,50Hz)	≤1mA				
	Operating Temperature	-25°C~+70°C(See Dera	ting Graphs)			
	Storage Temperature	-40°C~+105°C				
nvironment	Altitude	≤3000M				
	Humidity	10%~90% RH				
	Case Material	Aluminum				
	Vibration Testing	20G,5~100Hz,3axes				
	MTBF	≥100000 Hr @ 25°C (MIL-HDBK-217F)				
Physical	Dimension	153(L) x 67(W) x 41(H) mm				
,	Weight	450g				
	Cooling Method	Free Air Cooling(See De	erating Graphs)			
	Agency Approvals	Design Refer To EN60950,CE,YY0505				
Safety	EMI Conducted & Radiated	Design Refer To EN550				
	EMS(Noise Lmmunity)	Design Refer To EN 550				
EMC	Harmonic Current		00-3-2 CLASS A,EN6100	0.2.2.15.004.000.4.2/2/4/	E1010144	

- 1.All specifications valid at 220VAC input voltage, full load and +25°C after warm-up time unless otherwise stated.
- 2.Ripple & Noise are measured at 20MHz of bandwidth with 0.1uF/50V(metal film capacitors) & 47uF/50V(electrolytic capacitor).



180W DUAL OUTPUT AC-DC SWITCHING POWER SUPPLY



RPC180 SERIES

180 Watts



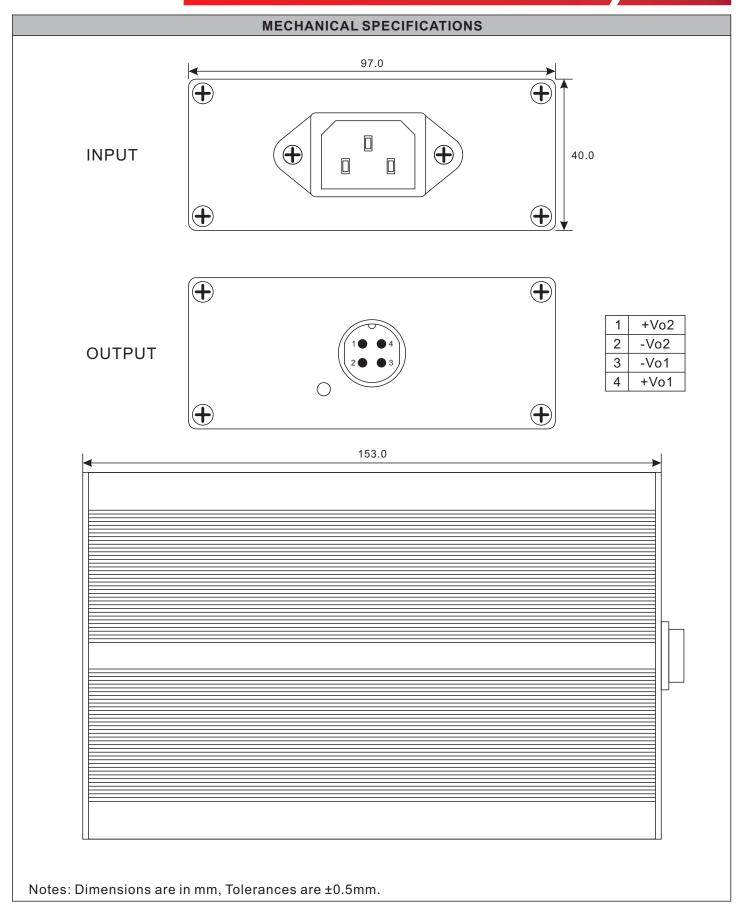


- ◆ EMI Filter
- ◆ The Rated Output Power Of Up To 180W
- ♦ Input Voltage:90~264VAC
- Output Voltage:+24V/+12V;+48V/+12V;+48V/+24V
- ♦ Efficiency Up To 87%
- ◆ Isolation Voltage > 3000VAC/1min/1mA
- ◆ Output Over Current & Output Short Circuit Protection
- ♦ Free Air Cooling
- ♦ 2-Years Product Warranty
- ♦ Dimension: 153(L) x 97(W) x 40(H) mm

ELECTRICAL SPECIFICATIONS

	Model No.		RPC180-W220D4812B	RPC180-W220D4824B	Units	
	Rating Voltage	110~220			VAC	
	Voltage Range	90~264			VAC	
	Frequency	47~63			Hz	
Input	Current(Full Load)	<2.5			А	
	Power Factor(Full load)	>0.5				
	Inrush Current(at 220VAC /Cold start)	<40 / Full Load			А	
	Leakage Current	<1			mA	
	Rating Voltage(Vo1/Vo2)	+24/+12	+48/+12	+48/+24	VDC	
	Trim Range					
	Minimum Current	0/0			Α	
	Maximum Current	5/5	2.5/5	2.5/2.5	Α	
Output	Line Regulation(Max)	±1/±1			%	
	Load Regulation(Max)	±1/±1			%	
	Ripple&Noise*(Max)	150/100	200/100	200/150	mVp-p	
	Efficiency (at 220VAC / Full Load)	>85	>86	>87	%	
	Hold-Up Time (at 230VAC / Full Load)	>20			mS	
Protection	Output Over Current Protection	Auto Recovery,120~150% Rated Output Current				
	Output Short Circuit Protection	Continue, No Damage, Auto Recovery				
	Over Termperature Protection	Option(110°C±5°C)				
1 1 4	Input-Output	3000VAC/<1mA/60S (Without Arcing, Without Breakdown)				
Isolation Voltage	Input-Earth	1500VAC/<1mA/60S (W	ithout Arcing, Without Bre	eakdown)		
voltage	Output-Earth	500VAC/<0.5mA/60S (Without Arcing, Without Breakdown)				
	Input-Output	≥10MΩ (Isolation Voltage 500Vdc)				
Isolation	Input-Earth	≥10MΩ (Isolation Voltage 500Vdc)				
Resistance	Output-Earth	≥10MΩ (Isolation Voltage 500Vdc)				
	Leakage Current(Vin=220Vac,50Hz)	≤1mA				
	Operating Temperature	-25°C~+70°C(See Derating Graphs)				
	Storage Temperature	-40°C~+105°C				
nvironment	Altitude	≤3000M				
	Humidity	10%~90% RH				
	Case Material	Aluminum				
	Vibration Testing	20G,5~100Hz,3axes				
	MTBF	≥100000 Hr @ 25°C (MIL-HDBK-217F)				
Physical	Dimension	153(L) x 97(W) x 40(H) mm				
	Weight	750g				
	Cooling Method	Free Air Cooling(See Derating Graphs)				
Cafeti	Agency Approvals	Design Refer To EN60950, CE, YY0505				
Safety	EMI Conducted & Radiated	Design Refer To EN55022 CLASS A,YY0505				
	EMS(Noise Lmmunity)	Design Refer To EN 55024,YY0505				
EMC	Harmonic Current	Design Refer To EN61000-3-2 CLASS A, EN61000-3-3, IEC61000-4-2/3/4/5/6/				

- 1.All specifications valid at 220VAC input voltage, full load and +25°C after warm-up time unless otherwise stated.
- 2.Ripple & Noise are measured at 20MHz of bandwidth with 0.1uF/50V(metal film capacitors) & 47uF/50V(electrolytic capacitor).



35W TRIPLE OUTPUT AC-DC SWITCHING POWER SUPPLY



RPE35 SERIES

35 Watts





KEY FEATURES

- ♦ Standard 1U Height Of Industrial Power
- ◆ The Maximum Output Power Of Up To 35W
- ◆ Input Voltage:90~264VAC
- Free Air Cooling
- Output Voltage:+5V/±12V;+5V/±15V;+7V/±12V;+7V/±15V;+12V/±5V
- Output Over Current & Output Short Current Protection
- Efficiency Up To 78%
- ♦ 2-Years Limited Warranty
- ♦ Dimension: 129(L) x 98(W) x 40(H) mm

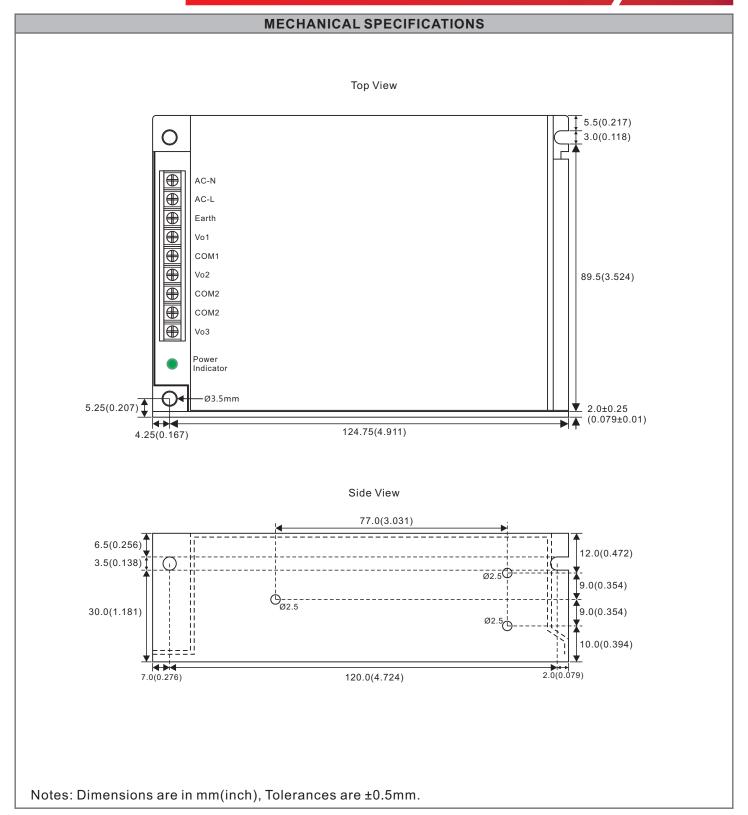
SELECTION GUIDE

Model	Output Voltage	Output Current	Output Ripple&Noise	Line Regulation	Load Regulation	Cross Regulation	Efficiency
DDE25 W220T05B12B	+5V	1A	80mV	1%	1%	1%	75%
RPE35-W220T05B12B	±12V	±1.25A	120mV	1%	2%	5%	75%
DDE25 W220T05B45B	+5V	1A	80mV	1%	1%	1%	76%
RPE35-W220T05B15B	±15V	±1A	150mV	1%	2%	5%	
RPE35-W220T07B12B	+7V	1A	100mV	1%	1%	1%	76%
RPE35-W220107B12B	±12V	±1.2A	120mV	1%	2%	5%	7 0 70
RPE35-W220T07B15B	+7V	1V	100mV	1%	1%	1%	700/
RPE35-W220107B15B	±15V	±1A	150mV	1%	2%	5%	78%
DDC25 W220T42B05B	+12V	1A	100mV	1%	1%	1%	74%
RPE35-W220T12B05B	±5V	±2.3A	80mV	1%	2%	5%	14%

ELECTRICAL SPECIFICATIONS

	Parameters	Content	Units			
	Rating Voltage	220	VAC			
Input	Voltage Range	90~264	VAC			
Input	Frequency	47~63				
	Current(Full Load)	<0.5	Α			
	Power Factor(Full Load)	>0.6				
	Inrush Current(at 220VAC /Cold start)	<20 / Full Load A				
	Output Over Voltage Protection	5.6V(Vo=5V),8.1V(Vo=7V)				
Protection	Output Over Current Protection	Auto Recovery, 110~130% Rated Output Current				
	Output Short Circuit Protection	Continue,No Damage, Auto-Recovery				
La a La Casa	Input-Output	3000VAC/<1mA/60S (Without Arcing, Without Breakdown)				
Isolation Voltage	Input-Earth	1500VAC/<1mA/60S (Without Arcing, Without Breakdown)				
voitage	Output-Earth	500VAC/<0.5mA/60S (Without Arcing, Without Breakdown)				
	Input-Output	≥10MΩ (Isolation Voltage 500Vdc)				
Isolation Resistance	Input-Earth	≥10MΩ (Isolation Voltage 500Vdc)				
Resistance	Output-Earth	≥10MΩ (Isolation Voltage 500Vdc)				
Leakage Current	Vin=220Vac	≤500uA				
	Operating Temperature	-25°C~+70°C(With Derating)				
Environment	Storage Temperature	-40°C~+105°C				
Environment	Altitude	≤3000M				
	Humidity	10%~90% RH				
	Case Material	Ferroalloy & Aluminum				
	Vibration Testing	20G,5~100Hz,3axes				
Physical	MTBF	≥300000 Hr @ 25°C (MIL-HDBK-217F)				
Filysical	Dimension	129(L) x 98(W) x 40(H) mm				
	Weight	320g				
	Cooling Method	Free Air Cooling				
Safety	Agency Approvals	Design Refer To EN60950,CE(Approvalled)				
	EMI Conducted & Radiated	Design Refer To EN55022 CLASS A				
EMC	EMS(Noise Lmmunity)	Design Refer To EN 55024				
	Harmonic Current	Design Refer To EN61000-3-2 CLASS A, EN61000-3-3, IEC61000-4-	2/3/4/5/6/8/11			

- 1.All specifications valid at 220VAC input voltage, full load and +25°C after warm-up time unless otherwise stated.
- 2.Ripple & Noise are measured at 20MHz of bandwidth with 0.1uF/50V(metal film capacitors) & 10uF/50V(electrolytic capacitor).
- 3. Working long hours, the output current should not exceed the rated current.
 4. This series isn't PFC function.



150W BIPOLAR OUTPUT AC-DC SWITCHING POWER SUPPLY



RPE150-B SERIES

150 Watts





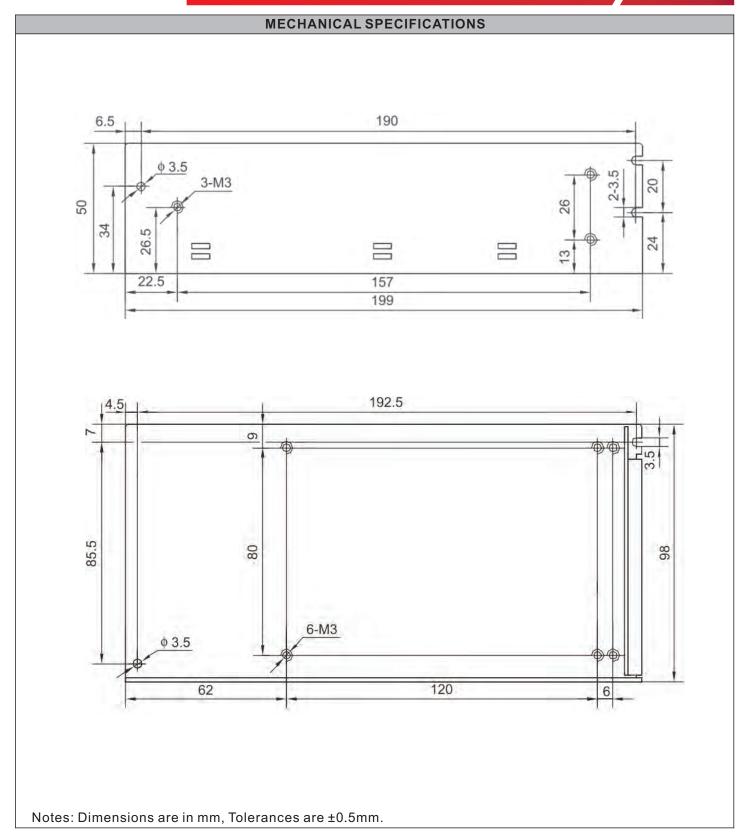
KEY FEATURES

- ◆ EMI Filter
- ◆ The Rated Output Power Of Up To 150W
- ♦ Input Voltage:110VAC or 220VAC
- ◆ Output Voltage:±12V;±15V;±24V
- ◆ Efficiency Up To 86%
- ◆ Isolation Voltage > 3000VAC/1min/1mA
- ◆ Output Over Current & Output Short Circuit Protection
- ◆ Free Air Cooling
- 2-Years Product Warranty
- ♦ Dimension: 199(L) x 98(W) x 50(H) mm

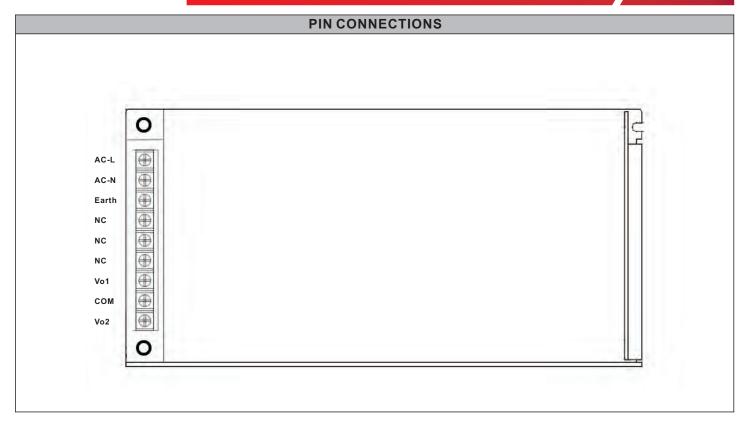
ELECTRICAL SPECIFICATIONS

	Model No.	RPE150-S220B12B	RPE150-S220B15B	RPE150-S220B24B	Units	
	Rating Voltage	110/220			VAC	
Input	Voltage Range	90~132/180~264			VAC	
	Frequency	47~63			Hz	
	Current(Full Load)	<2.5			А	
	Power Factor(Full load)	>0.5				
	Inrush Current(at 220VAC /Cold start)	<40 / Full Load			А	
	Leakage Current	<1			mA	
	Rating Voltage(V1/V2)	+12/-12	+15/-15	+24/-24	VDC	
	Trim Range(V1+V2)	±10			VDC	
	Minimum Current	0/0			А	
	Maximum Current	6.25/6.25	5/5	3.125/3.125	Α	
Output	Line Regulation(Max)	±1/±3			%	
	Load Regulation(Max)	±1/±3			%	
	Ripple&Noise*(Max)	100/100	120/120	150/150	mVp-p	
ľ	Efficiency (at 220VAC / Full Load)	>84	>85	>86	%	
	Hold-Up Time (at 230VAC / Full Load)	>20			mS	
Protection	Output Over Current Protection	Auto Recovery, 110~130	% Rated Output Current			
	Output Short Circuit Protection	Continue, No Damage, Auto Recovery				
	Over Termperature Protection	Option(110°C±5°C)				
	Input-Output	3000VAC/<1mA/60S (Without Arcing, Without Breakdown)				
Isolation Voltage	Input-Earth	1500VAC/<1mA/60S (W	/ithout Arcing, Without Br	eakdown)		
voltage	Output-Earth	500VAC/<0.5mA/60S (Without Arcing, Without Breakdown)				
	Input-Output	≥10MΩ (Isolation Voltage 500Vdc)				
Isolation	Input-Earth	≥10MΩ (Isolation Voltage 500Vdc)				
Resistance	Output-Earth	≥10MΩ (Isolation Voltage 500Vdc)				
	Leakage Current(Vin=220Vac,50Hz)	≤1mA				
	Operating Temperature	-25°C~+70°C(See Dera	ting Graphs)			
	Storage Temperature	-40°C~+105°C				
Environment	Altitude	≤3000M				
	Humidity	10%~90% RH				
	Case Material	Aluminum				
	Vibration Testing	20G,5~100Hz,3axes				
	MTBF	≥100000 Hr @ 25°C (MI	IL-HDBK-217F)			
Physical	Dimension	199(L) x 98(W) x 50(H) mm				
_	Weight	500g				
	Cooling Method	Free Air Cooling(See Derating Graphs)				
0.64	Agency Approvals	Design Refer To EN60950,CE,YY0505				
Safety	EMI Conducted & Radiated	Design Refer To EN55022 CLASS A,YY0505				
	EMS(Noise Lmmunity)	Design Refer To EN 550				
EMC	Harmonic Current	Design Refer To EN610				

- $1. All\ specifications\ valid\ at\ 220 VAC\ input\ voltage,\ full\ load\ and\ +25^{\circ}C\ after\ warm-up\ time\ unless\ otherwise\ stated.$
- 2.Ripple & Noise are measured at 20MHz of bandwidth with 0.1uF/50V(metal film capacitors) & 47uF/50V(electrolytic capacitor).



RPE150-B SERIES



150W QUARTIC OUTPUT AC-DC SWITCHING POWER SUPPLY



RPE150-Q SERIES

150 Watts





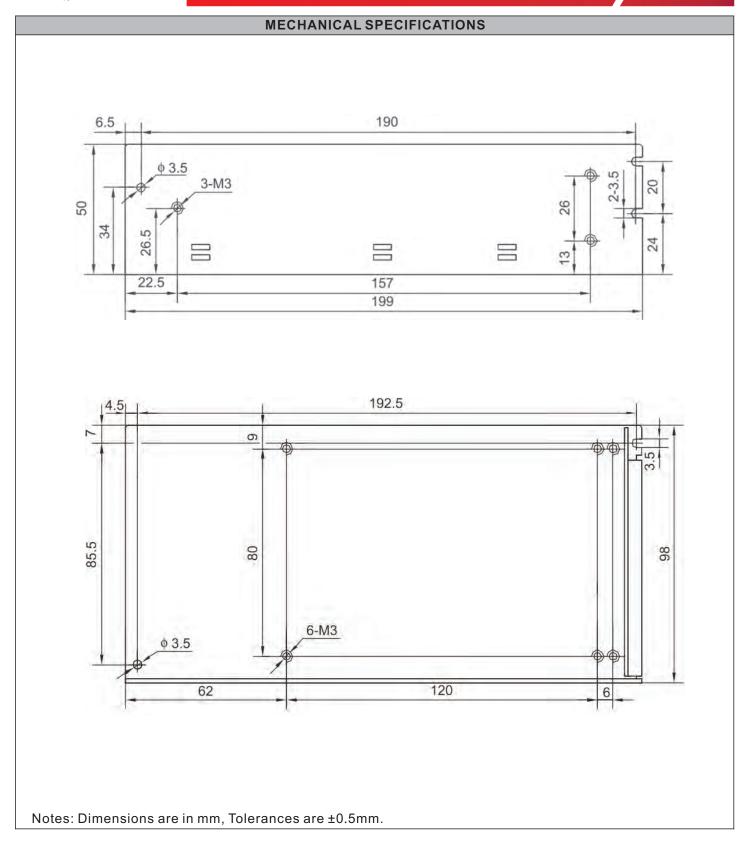
KEY FEATURES

- ◆ EMI Filter
- ♦ The Rated Output Power Of Up To 150W
- ♦ Input Voltage:110VAC or 220VAC
- ◆ Output Voltage:+5V/+5V/±12V;+5V/+5V/±15V;+12V/+12V/±15V
- ♦ Efficiency Up To 84%
- ◆ Isolation Voltage > 3000VAC/1min/1mA
- Output Over Current & Output Short Circuit Protection
- ◆ Free Air Cooling
- 2-Years Product Warranty
- ♦ Dimension: 199(L) x 98(W) x 50(H) mm

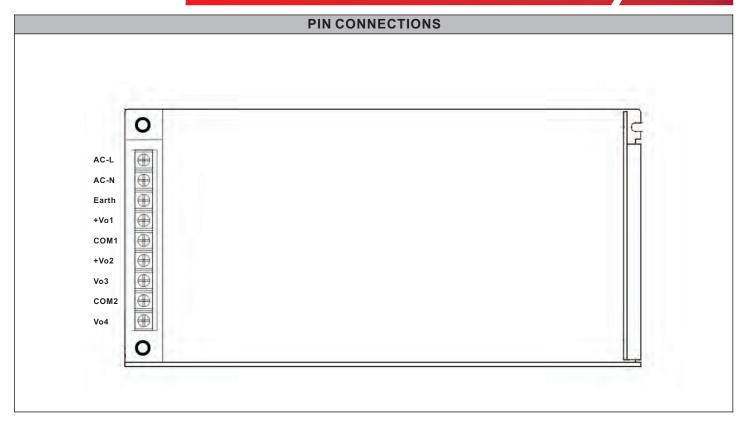
ELECTRICAL SPECIFICATIONS

	Model No.	RPE150-S220Q12B15B	RPE150-S220Q05B12B	RPE150-S220Q05B15B	Units
	Rating Voltage	110/220			VAC
Input	Voltage Range	90~132/180~264			VAC
	Frequency	47~63			Hz
	Current(Full Load)	<2.5			Α
	Power Factor(Full load)	>0.5			
	Inrush Current(at 220VAC /Cold start)	<40 / Full Load			А
	Leakage Current	<1			mA
	Rating Voltage	+12/+12/+15/-15	+5/+5/+12/-12	+5/+5/+15/-15	VDC
	Trim Range(V2)	±10			VDC
	Minimum Current	0/0/0.5/0.5			А
	Maximum Current	1/1/4/4	2/2/4/4	3/3/4/4	Α
Output	Line Regulation(Max)	±1/±1/±1/±3			%
	Load Regulation(Max)	±1/±1/±1/±3			%
	Ripple&Noise*(Max)	120/120/120/120	50/50/100/100	50/50/120/120	mVp-p
	Efficiency (at 220VAC / Full Load)	>84	>79	>80	%
Ī	Hold-Up Time (at 230VAC / Full Load)	>20			mS
Protection	Output Over Current Protection	Auto Recovery,110~130	% Rated Output Current		
	Output Short Circuit Protection	Continue, No Damage, Auto Recovery			
	Over Termperature Protection	Option(110°C±5°C)	·		
	Input-Output	3000VAC/<1mA/60S (W	ithout Arcing, Without Bre	eakdown)	
Isolation Voltage	Input-Earth	1500VAC/<1mA/60S (W	ithout Arcing, Without Bre	eakdown)	
voltage	Output-Earth	500VAC/<0.5mA/60S (Without Arcing, Without Breakdown)			
	Input-Output	≥10MΩ (Isolation Voltage 500Vdc)			
Isolation	Input-Earth	≥10MΩ (Isolation Voltage 500Vdc)			
Resistance	Output-Earth	≥10MΩ (Isolation Voltage 500Vdc)			
	Leakage Current(Vin=220Vac,50Hz)	≤1mA			
	Operating Temperature	-25°C~+70°C(See Dera	ting Graphs)		
	Storage Temperature	-40°C~+105°C			
Environment	Altitude	≤3000M			
	Humidity	10%~90% RH			
	Case Material	Aluminum			
	Vibration Testing	20G,5~100Hz,3axes			
	MTBF	≥100000 Hr @ 25°C (MI	L-HDBK-217F)		
Physical	Dimension	199(L) x 98(W) x 50(H) mm			
-	Weight	500g			
	Cooling Method	Free Air Cooling(See Derating Graphs)			
0.64	Agency Approvals	Design Refer To EN60950,CE,YY0505			
Safety	EMI Conducted & Radiated	Design Refer To EN55022 CLASS A, YY0505			
	EMS(Noise Lmmunity)	Design Refer To EN 550			
EMC		Design Refer To EN6100			

- $1. All\ specifications\ valid\ at\ 220 VAC\ input\ voltage,\ full\ load\ and\ +25^{\circ}C\ after\ warm-up\ time\ unless\ otherwise\ stated.$
- 2.Ripple & Noise are measured at 20MHz of bandwidth with 0.1uF/50V(metal film capacitors) & 47uF/50V(electrolytic capacitor).



RPE150-Q SERIES



500W QUARTIC OUTPUT AC-DC SWITCHING POWER SUPPLY



RPE500-Q SERIES

500 Watts





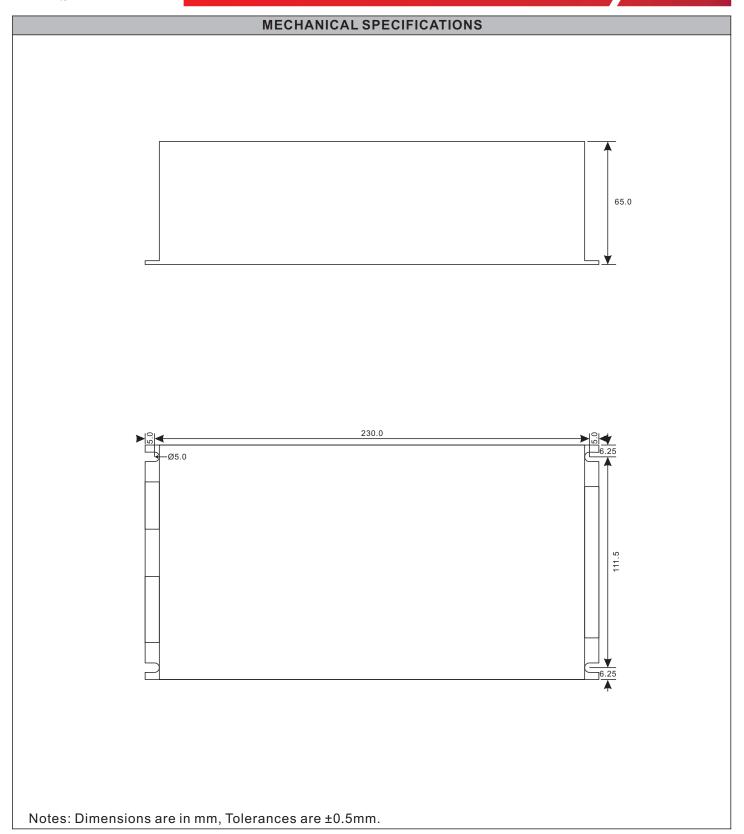
KEY FEATURES

- ◆ EMI Filter
- ♦ The Rated Output Power Of Up To 150W
- ♦ Input Voltage:110VAC or 220VAC
- ◆ Output Voltage:+24V/±15V/+5V
- ♦ Efficiency Up To 81%
- ♦ Isolation Voltage > 3000VAC/1min/1mA
- Output Over Current & Output Short Circuit Protection
- Forced Air Cooling By Built-in Fan
- 2-Years Product Warranty
- ♦ Dimension: 240(L) x 124(W) x 65(H) mm

ELECTRICAL SPECIFICATIONS

	Model No.	RPA500-S220Q24B15S05B	Units	
	Rating Voltage	110/220	VAC	
	Voltage Range	90~132/180~264	VAC	
	Frequency	47~63	Hz	
Input	Current(Full Load)	<60	А	
	Power Factor(Full load)	>0.5		
	Inrush Current(at 220VAC /Cold start)	<40 / Full Load	А	
	Leakage Current	<1	mA	
	Rating Voltage	+24/+15/-15/+5	VDC	
	Trim Range(V2)	±5	VDC	
	Minimum Current	0/0/0/0	А	
	Maximum Current	15/5/5/5	А	
Output	Line Regulation(Max)	±1/±1/±1	%	
	Load Regulation(Max)	±1/±1/±1	%	
	Ripple&Noise*(Max)	200/150/150/50	mVp-p	
	Efficiency (at 220VAC / Full Load)	>81	%	
	Hold-Up Time (at 230VAC / Full Load)	>20	mS	
	Output Over Current Protection	Auto Recovery,110~130% Rated Output Current		
Protection	Output Short Circuit Protection	Continue,No Damage, Auto Recovery		
	Over Termperature Protection	Option(110°C±5°C)		
	Input-Output	3000VAC/<1mA/60S (Without Arcing, Without Breakdown)		
Isolation Voltage	Input-Earth	1500VAC/<1mA/60S (Without Arcing, Without Breakdown)		
voitage	Output-Earth	500VAC/<0.5mA/60S (Without Arcing, Without Breakdown)		
	Input-Output	≥10MΩ (Isolation Voltage 500Vdc)		
Isolation	Input-Earth	≥10MΩ (Isolation Voltage 500Vdc)		
Resistance	Output-Earth	≥10MΩ (Isolation Voltage 500Vdc)		
	Leakage Current(Vin=220Vac,50Hz)	≤1mA		
	Operating Temperature	-25°C~+70°C(See Derating Graphs)		
	Storage Temperature	-40°C~+105°C		
Environment	Altitude	≤3000M		
	Humidity	10%~90% RH		
	Case Material	Aluminum		
	Vibration Testing	20G,5~100Hz,3axes		
	MTBF	≥100000 Hr @ 25°C (MIL-HDBK-217F)		
Physical	Dimension	240(L) x 124(W) x 65(H) mm		
	Weight	500g		
	Cooling Method	Fan		
0 - (- 1 - 1	Agency Approvals	Design Refer To EN60950, CE, YY0505		
Safety	EMI Conducted & Radiated	Design Refer To EN55022 CLASS A, YY0505		
	EMS(Noise Lmmunity)	Design Refer To EN 55024,YY0505		
EMC	, , , , , , , , , , , , , , , , , , , ,	Design Refer To EN61000-3-2 CLASS A, EN61000-3-3, IEC61000-4-2/3/4/		

- $1. All\ specifications\ valid\ at\ 220 VAC\ input\ voltage,\ full\ load\ and\ +25^{\circ}C\ after\ warm-up\ time\ unless\ otherwise\ stated.$
- 2.Ripple & Noise are measured at 20MHz of bandwidth with 0.1uF/50V(metal film capacitors) & 47uF/50V(electrolytic capacitor).





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