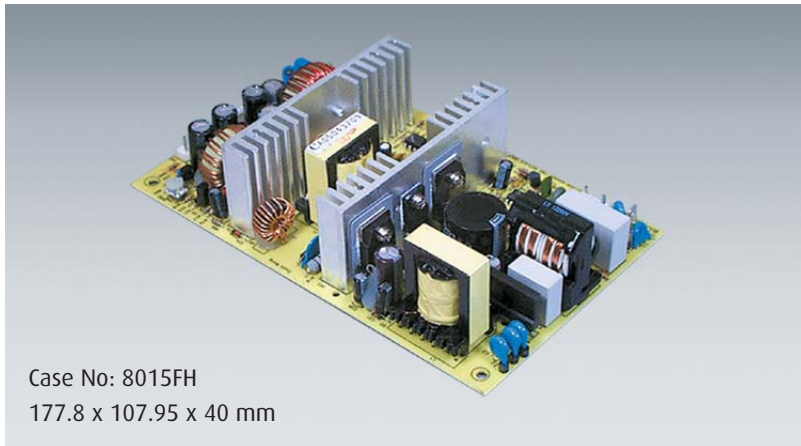


PPQ-100 Series

100W Quad Output Open Frame Power Supply



Case No: 8015FH
177.8 x 107.95 x 40 mm

Features

- Universal AC input/ Full range
- Built-in active PFC function, PF>0.95
- protections: Short circuit/Overload/Over voltage
- Cooling by free air convection
- 100% full load burn-in test
- Fixed switching frequency at 70KHz (Optional)



Specification

INPUT	Voltage	90V ~ 264VAC universal full range or 127V ~ 370VDC							
	Frequency	47 ----- 63 Hz							
	Current	<1.65A@115VAC; 0.85A@230VAC full load							
	Inrush Current	Cold start 30A							
	Leakage Current	<3.5mA@240VAC							
OUTPUT	MODEL No.	PPQ-100B				PPQ-100C			
	Channel	CH1	CH2	CH3	CH4	CH1	CH2	CH3	CH4
	Voltage	5V	12V	-12V	-5V	5V	15V	-15V	-5V
	Rated Current	10A	3.4A	0.6A	0.6A	10A	2.6A	0.6A	0.6A
	Current Range	2~15A	0.3~4A	0~1A	0~1A	2~15A	0.3~4A	0~1A	0~1A
	Output Tolerance	± 3%	± 8%	± 5%	± 5%	± 3%	+10,-6%	± 5%	± 5%
	Line Regulation	± 1%	± 2%	± 2%	± 1%	± 1%	± 2%	± 2%	± 1%
	Load Regulation	± 2%	± 6%	± 2%	± 2%	± 2%	± 6%	± 2%	± 2%
	Ripple Noise MAX.	100mV	150mV	100mV	100mV	100mV	150mV	100mV	100mV
	Efficiency (TYP.)	75%				76%			
PROTECTION	Rated Power	101W				101W			
	Over Voltage	CH1:5.75~6.75V				CH1:5.75~6.75V			
	Over Load	Shut down o/p voltage, re-power on to recover 105~135% rated output power Hiccup mode; recovers automatically after fault condition is removed							
ELEC. CHAR.	Rise Time	<50mS@115~230VAC, full load							
	Hold up Time	>24mS@115~230VAC, full load							
	Setup Time	<0.8 Sec@115; 1.2Sec@230VAC, full load							
ENVIRONMENT	Temperature	Operating: -10 ~ +60°C ; Storage: -20~ +85°C							
	Humidity	Operating: 20% ~ 90% RH (non condensing); Storage: 10% ~ 95% RH							
SAFETY	Withstand Voltage	I/P-O/P3KVAC; I/P-FG:1.5KVAC; O/P-FG:0.5KVAC							
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG 100MΩ/500VDC							
	Safety Standard	UL60950-1, TUV EN60950-1 Approved							
EMC	EMI	EN55022 (CISPR22) Class B, EN61000-3-2,3							
	EMS	EN61000-4-2,3,4,5,6,8,11; EN55024, Light industry level, criteria A							
OTHERS	Cooling	Cooling by free air convection							
	M.T.B.F.	162.5K hrs min. MIL-HDBK-217F (°C)							
	Packing	0.62Kg; 24pcs/15.9Kg/1.34 CUFT							

1 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature

2 Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uF & 47uF parallel capacitor

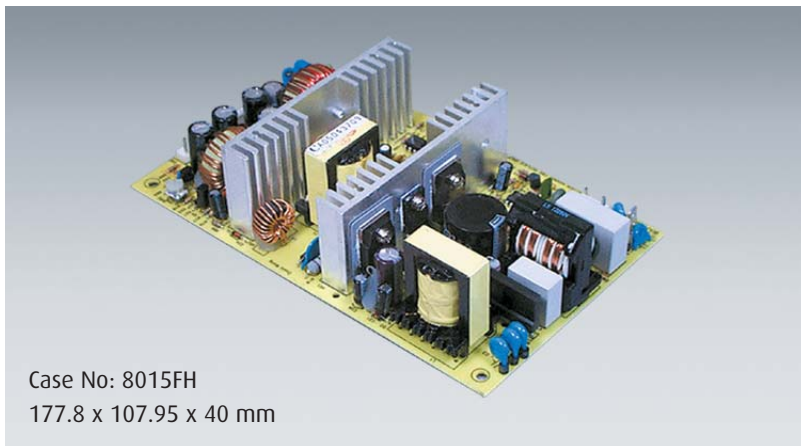
3 Tolerance: includes set up tolerance, line regulation and load regulation

4 The power supply is considered a component which will be installed into final equipment. The final equipment must be re-confirmed that it still meets EMC directives

5 Heat sink HS1, HS2 can not be shorted

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Specification

INPUT	Voltage	90V ~ 264VAC universal full range or 127V ~ 370VDC			
	Frequency	47 ----- 63 Hz			
	Current	<1.65A@115VAC; 0.85A@230VAC full load			
	Inrush Current	Cold start 30A			
	Leakage Current	<3.5mA@240VAC			
OUTPUT	MODEL No.	PPQ-100D			
	Channel	CH1	CH2	CH3	CH4
	Voltage	5V	24V	12V	-12V
	Rated Current	8A	2A	0.6A	0.6A
	Current Range	2~10A	0.3~4A	0~1A	0~1A
	Output Tolerance	± 3%	± 8%	± 5%	± 5%
	Line Regulation	± 1%	± 2%	± 2%	± 1%
	Load Regulation	± 2%	± 6%	± 2%	± 2%
	Ripple Noise MAX.	100mV	200mV	100mV	100mV
	Efficiency (TYP.)	78%			
PROTECTION	Rated Power	102.4W			
	Over Voltage	CH1:5.75~6.75V			
	Over Load	Shut down o/p voltage, re-power on to recover 105~135% rated output power Hiccup mode; recovers automatically after fault condition is removed			
ELEC. CHAR.	Rise Time	<50mS@115~230VAC, full load			
	Hold up Time	>24mS@115~230VAC, full load			
	Setup Time	<0.8 Sec@115; 1.2Sec@230VAC, full load			
ENVIRONMENT	Temperature	Operating: -10 ~ +60°C ; Storage: -20~ +85°C			
	Humidity	Operating: 20% ~ 90% RH (non condensing); Storage: 10% ~ 95% RH			
SAFETY	Withstand Voltage	I/P-O/P3KVAC; I/P-FG:1.5KVAC; O/P-FG:0.5KVAC			
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG 100MΩ/500VDC			
	Safety Standard	UL60950-1, TUV EN60950-1 Approved			
EMC	EMI	EN55022 (CISPR22) Class B, EN61000-3-2,3			
	EMS	EN61000-4-2,3,4,5,6,8,11; EN55024, Light industry level, criteria A			
	Cooling	Cooling by free air convection			
OTHERS	M.T.B.F.	162.5K hrs min. MIL-HDBK-217F (°C)			
	Packing	0.62Kg; 24pcs/15.9Kg/1.34 CUFT			

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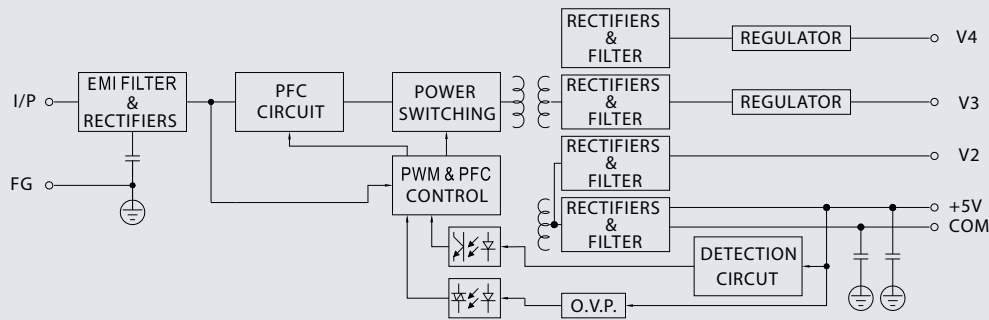
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100W Quad Output Open Frame Power Supply

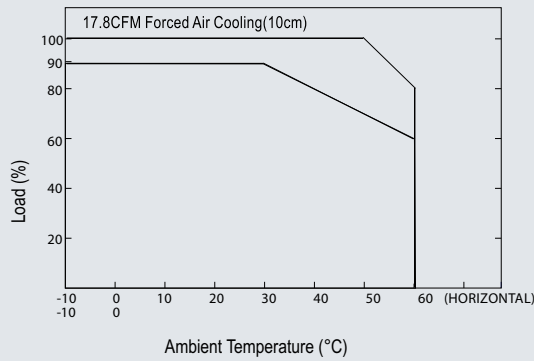


Block Diagram

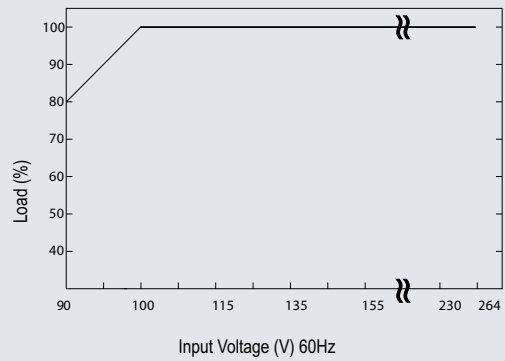


fosc : 70KHz
(Option)

De-Rating Curve



Output Derating Vs Input Voltage



Dimensions

AC Input Connector (CN1): JST B5P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1	FG	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
2,4	No Pin	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
3	AC/L	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
5	AC/N	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent

DC Output Connector (CN2): JST B5P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1,2	V2	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
3	NC	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
4	V3	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
5	V4	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent

DC Output Connector (CN3): JST B8P-VH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1~4	V1	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent
5~8	COM	JST VHR or equivalent	JST SVH-21T-P1.1 or equivalent

