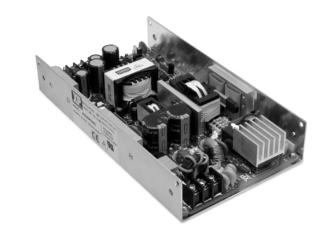
AC/DC U-Channel

350 Watts **JPS350** Series



Specification _

Input

Input	Voltage
Input	Current

Inrush Current

Input Frequency

Output

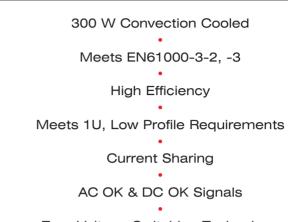
Output Voltage
Output Voltage
Adjustment
Output Power
Hold Up Time
Line Regulation
Load Regulation
Tolerance
Transient Response
Ripple & Noise
Overvoltage
Protection
Overcurrent
Protection
Overtemperature
Protection
Temperature
Coefficient
Remote Sense
nemole Sense

Remote On/Off

Current Share

- 85-264 VAC (170-370 VDC) 4 A max at 115 VAC
- 2 A max at 230 VAC 30 A max at 115 VAC,
- 60 A max at 230 VAC
- 47-63 Hz
- See Table
- ±10% single output models only
- 350 Watts
- 20 ms min at low line
- ±0.5%
- ±1%, ±5% for V3 and V4
- +1%
- 4% max deviation, 2 µs recovery time for a 25% load change
- ±1% max (pk-pk) 110% to 140%, on output 1 only recycle input to reset
- 120% to 150%, hiccup mode
- Shuts down at 110 °C measured internally, auto recovers
- ±0.05%/°C
- Compensates for up to 0.5 V drop
- On = Logic LOW, or open circuit Off = Logic HIGH
- Single wire current sharing (4 supplies can be paralleled)

THE XPERTS IN POWER



Zero Voltage Switching Technology

General

Efficiency (Typical) Up to 90% Isolation 3000 VAC Input to Output 1500 VAC Input to Ground 500 VAC Output to Ground Power Density 4.9 W/in³ AC OK TTL HIGH for normal operation ٠ DC OK • TTL HIGH for normal operation MTBF 100,000 hrs min to MIL-HDBK-217F Fan Output 12 V at 300 mA • (5 V at 400 mA for JPS350PS05) Size 5.0" x 9.0" x 1.6" Weight 960 g **Environmental** Operating 0 °C to +70 °C See Derating Curve Temperature Full power to +50 °C

-20 °C to +85 °C

EN61000-3-2, -3,

CE Mark LVD

- 350 W with 18 CFM airflow 300 W Convection Cooling 10,000 feet (3,200 M)

•

EMC & Safety EMI/EMC

- Immunity & Surge
- Safety Approvals
- Level B conducted EN50082-2, (EN61000-4-2,-3, -4, -5) Performance criteria A UL60950, CSA C22.2 No 234, EN60950,

EN55022 Class B & FCC 20780



Storage

Temperature Cooling

Operating Altitude

	AGE & CURRI	ENT RATINGS			JPS350
Maximum	Output	Output Ci	urrent	Ripple & Noise	Model
Power	Voltage	Convection Cooled	18 CFM	Pk-Pk ⁽²⁾	Number ⁽¹⁾
315 W	+5 V	54.0 A	63.0 A	50 mV	JPS350PS05C
	+12 V	25.0 A	30.0 A	120 mV	JPS350PS12C
350 W	+15 V	20.0 A	24.0 A	120 mV	JPS350PS15C
300 W	+24 V	13.0 A	15.0 A	200 mV	JPS350PS24C
	+48 V	6.5 A	7.3 A	200 mV	JPS350PS48C

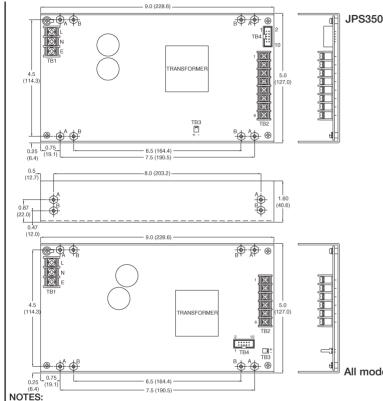
Notes

1. For non-current share version delete suffix 'C' from model number.

2. Ripple and noise measured over 15 MHz bandwidth with a 47 µF electrolytic capacitor and 0.47 µF ceramic capacitor.

3. No minimum load required.

Mechanical Details



P305		TB2 CONNECTIONS					
Pi		Pin	JPS350PS05C	All other Models			
		1	+5 V	V1			
		2	+5 V	V1			
		3	GND	V1			
		4	GND	GND			
		5	GND	GND			
		6	GND	GND			
		7	+5 V				
		8	+5 V				
		TB	4 CONNECTIONS				
Pin	JPS350PS05C		JPS350PS05	All other Models			
1	NC		NC	N/C			
2	NC		NC	N/C			
3	RS+		RS+	RS+			
4	DC OK		DC OK	DC OK			
5	RS -		RS-	RS-			
6	N/C		N/C	N/C			
7	Current Share ^(A)		N/C	Current Share ^(A)			
8	Remote On/Off		Remote On/Off	Remote On/Off			
9	AC OK		AC OK	AC OK			
10	GND		GND	GND			

NOTE:

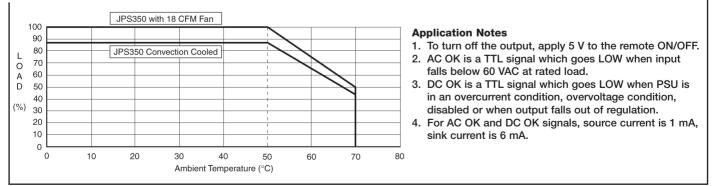
A. For non 'C' models pin 7 is not used.

All models (except JPS350PS05)

- Dimensions shown in inches (mm). 1.
- Tolerance is ±0.8 mm max. 2.
- TB3 is for fan, 12 V/300 mA with Molex 5045-02A or equivalent (5 V/400 mA for JPS350PS05). 3.
- 4 TB1 (AC input) and TB2 (DC output) are terminal blocks.
- 5. TB4 signal connector is Molex 70246-10 or equivalent.
- 6. Maximum mounting screw penetration is 0.16 (4.0)

Fan/Cover option available, order part number JPS350 F/CVR 5V for 5 V models, JPS350 F/CVR for all other models or alternatively add suffix '-E' 7. to receive cover fitted to the unit.

Derating Curve & Application Notes





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Mounting Holes: A = #6-32 Screw Mounting Holes B = M3 x 0.5 Screw Mounting Holes

OUTF	OUTPUT VOLTAGE & CURRENT RATINGS - MULTI OUTPUT MODELS JPS35						JPS350					
	Output 1			Output 2			Output 3			Output 4		Model
Output	Conv.	Max	Output	Conv.	Max	Output	Conv.	Max	Output	Conv.	Max	Number
V1	Cooled	18 CFM	V2	Cooled	18 CFM	V3	Cooled	18 CFM	V4	Cooled	18 CFM	
+3.3 V	20 A	35 A	+5 V	20 A	35 A	+12 V	4.5 A	6 A	-12 V	1 A	3 A	JPS350PQ46*2
+5.0 V	25 A	35 A	+12 V	10 A	14 A	-12 V	2.0 A	3 A	-5 V	1 A	2 A	JPS350PQ41
+5.0 V	25 A	35 A	+12 V	6 A	8 A	+24 V	3.0 A	4 A	-12 V	2 A	3 A	JPS350PQ47
+5.0 V	25 A	35 A	+15 V	5 A	7 A	+24 V	3.0 A	4 A	-15 V	1.6 A	3 A	JPS350PQ48

Notes

1. Maximum power with 18 CFM forced air is 350 Watts, or 300 Watts with convection cooling.

2. JPS350PQ46 requires 22 Max CFM. OVP on V2 (5 V output) not V1.

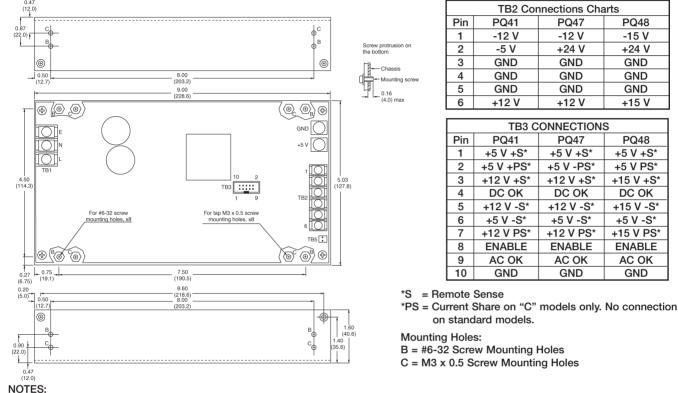
3. For current share option add suffix "C" to part number.

4. Current share models are built to order.

5. All models require 2 A minimum load on V1. On V2, JPS350PQ46 requires 1 A, and JPS350PQ41 requires 0.5 A, and PQ47/PQ48 requires 2 A.

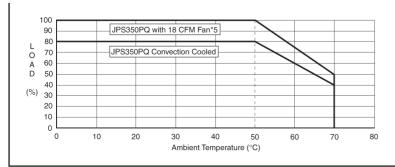
Mechanical Details - Multi Output Models

JPS350PQ41, JPS350PQ47 and JPS350PQ48 (See next page for JPS350PQ46).



- 1. Dimensions shown in mm.
- 2. Tolerance is ±0.8 mm max.
- 3. TB5 is for fan, with Molex 5045-02A or equivalent. Fan output is 12V/300mA for PQ41 or 24V/150mA for PQ47 and PQ48
- TB1 (AC input) and TB3 (DC output) are terminal blocks. 4
- TB2 signal connector is Molex 70246-10 or equivalent. 5.
- 6. TB3 signal connector is Molex 70246-10 or equivalent.

Derating Curve & Application Notes - Multi Output Models -



Application Notes

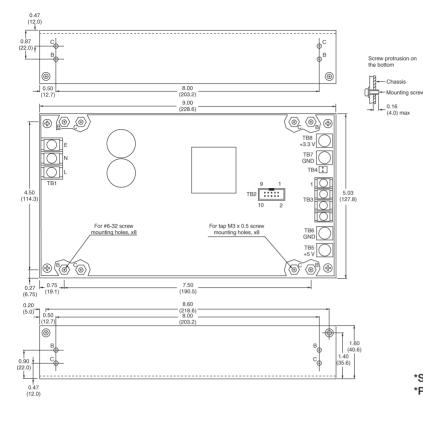
- 1. To turn off the output, apply 5 V to the remote ON/OFF.
- 2. AC OK is a TTL signal which goes LOW when input falls below 60 VAC at rated load.
- 3. DC OK is a TTL signal which goes LOW when PSU is in an overcurrent condition, overvoltage condition, disabled or when output falls out of regulation.
- 4. For AC OK and DC OK signals, source current is 1 mA, sink current is 6 mA.
- 5. JPS350PQ46 requires 22 Max CFM.



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Mechanical Details - Multi Output Model JPS350PQ46



TB2 Connections				
	Charts			
Pin	PQ46			
1	+5 V +S*			
2	+5 V PS*			
3	+3.3 V +S*			
4	+DC OK			
5	+3.3 V -S*			
6	+5.0 V -S*			
7	+3.3 V PS*			
8	+Enable			
9	+AC OK			
10	GND			

TB3 (TB3 Connections				
	Charts				
Pin	in PQ46				
1	GND				
2	+12 V				

	1 0(10
1	GND
2	+12 V
3	-12 V
4	GND

*S = Remote Sense

Mounting Holes:

*PS = Current Share on "C" models only. No connection on standard models.

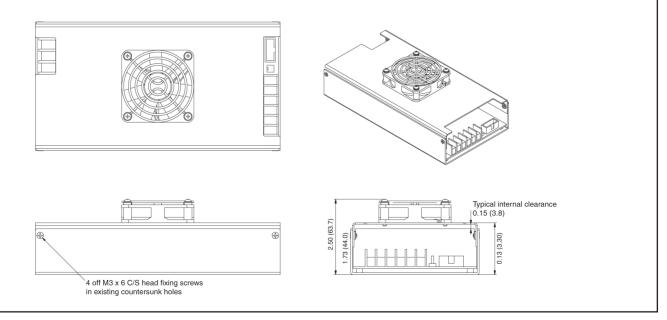
B = #6-32 Screw Mounting Holes

C = M3 x 0.5 Screw Mounting Holes

NOTES:

- 1. Dimensions shown in inches (mm).
- 2. Tolerance is ± 0.8 mm max.
- 3. TB4 is for fan, 12 V/300 mA with Molex 5045-02A or equivalent.
- 4 TB1 (AC input) and TB3 (DC output) are terminal blocks.
- 5. TB2 signal connector is Molex 70246-10 or equivalent.
- 6. Maximum mounting screw penetration is 0.16 (4.0).

JPS350 with Fan/Cover Option





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