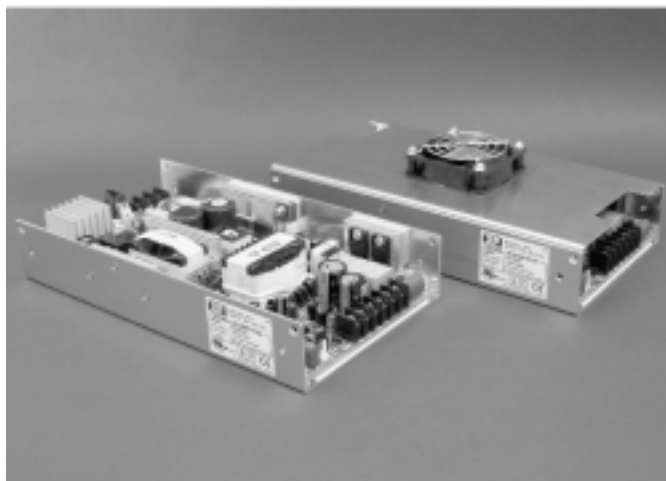


AC-DC Chassis Mount

350 Watts JPS350 Series



THE **XP**ERTS IN POWER

- 300 W Convection Cooled
- Meets EN61000-3-2, -3
- High Efficiency
- Meets 1U, Low Profile Requirements
- Current Sharing
- AC OK & DC OK Signals
- Zero Voltage Switching Technology

Specification

Input

Input Voltage	• 85-264 VAC (170-370 VDC)
Input Current	• 4 A max at 115 VAC 2 A max at 230 VAC
Inrush Current	• 30 A max at 115 VAC, 60 A max at 230 VAC
Input Frequency	• 47-63 Hz

Output

Output Voltage	• See Table
Output Voltage Adjustment	• $\pm 10\%$
Output Power	• 350 Watts
Minimum Load	• No minimum load required
Hold Up Time	• 20 ms min at low line
Line Regulation	• $\pm 0.5\%$
Load Regulation	• $\pm 1\%$
Tolerance	• $\pm 1\%$
Transient Response	• 4% max deviation, 2 ms recovery time for a 25% load change
Ripple & Noise	• $\pm 1\%$ max (pk-pk)
Overvoltage Protection	• 115% to 140%, recycle input to reset
Overcurrent Protection	• 120% to 150%, trip & restart
Overtemperature Protection	• Shuts down at 110 °C measured internally, auto recovers
Temperature Coefficient	• $\pm 0.05\%/^{\circ}\text{C}$
Remote Sense	• Compensates for up to 0.5 V drop
Remote On/Off	• On = Logic LOW, or open circuit Off = Logic HIGH
Current Share	• Single wire current sharing (4 supplies can be paralleled)

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/in ³
AC OK	• TTL HIGH for normal operation
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" 127.00 x 228.60 x 40.64 mm
Weight	• 960 g

Environmental

Operating Temperature	• 0 °C to +70 °C See Derating Curve Full power to +50 °C
Storage Temperature	• -20 °C to +85 °C
Cooling	• 350 W with 18 CFM airflow 300 W Convection Cooling
Shock & Vibration	• 10-500 Hz 2 G 10 mins/cycle for 60 mins each axis

EMC & Safety

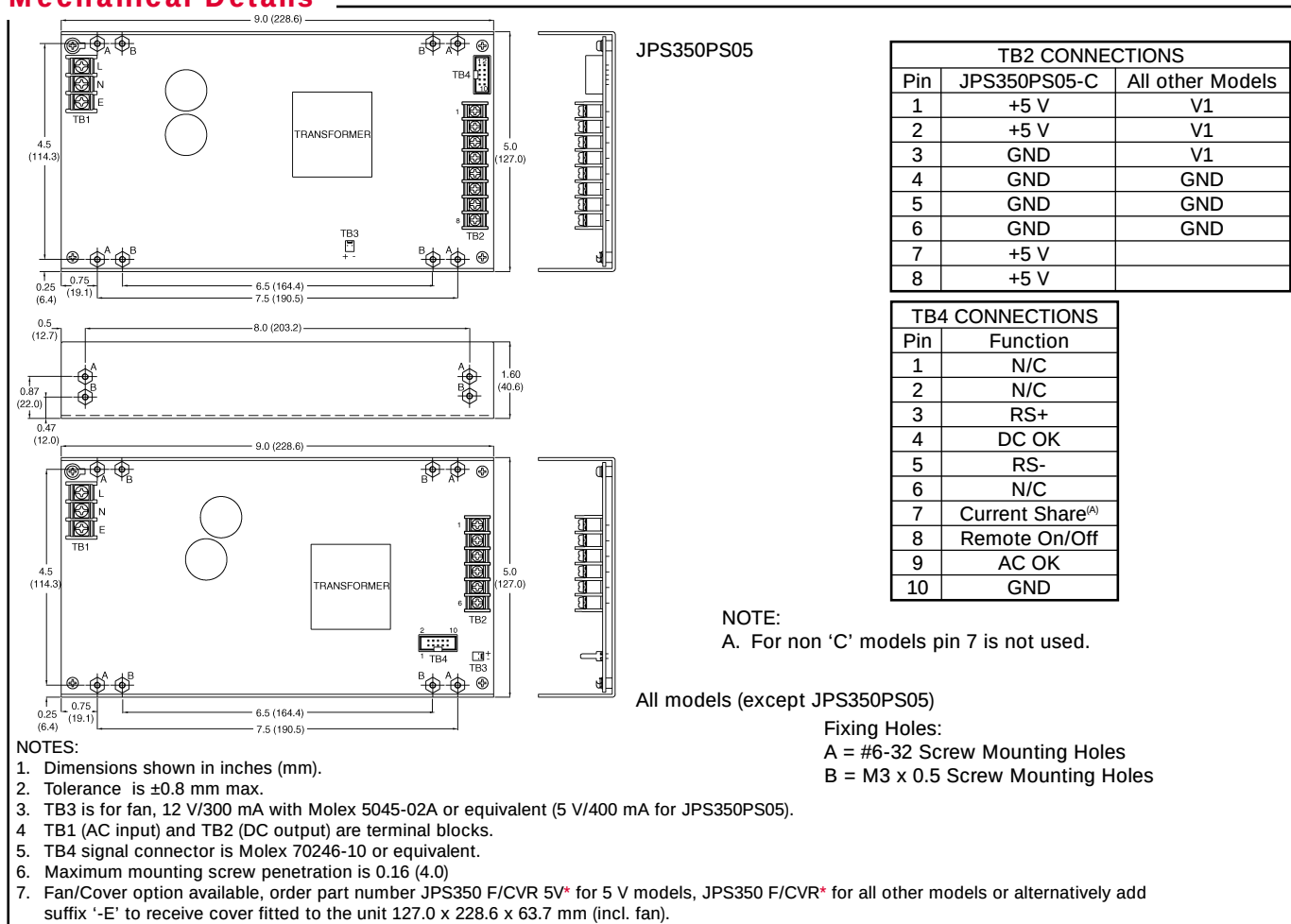
EMI/EMC	• EN61000-3-2, -3, EN55022 Class B & FCC 20780 Level B conducted
Immunity & Surge	• EN50082-2, (EN61000-4-2, -3, -4, -5) Performance criteria A
Safety Approvals	• UL1950, CSA C22.2 No 234, EN60950

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

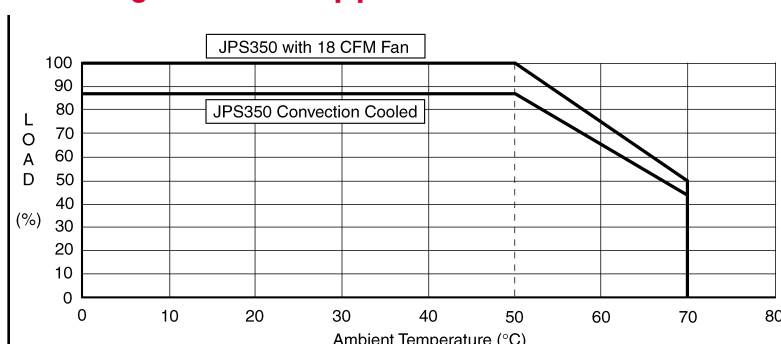
Notes

1. For non-current share version delete suffix 'C' from model number.
 2. Ripple and noise measured over 15 MHz bandwidth with a 47 μ F electrolytic capacitor and 0.47 μ F ceramic capacitor.
- * Also available from Farnell InOne, see pages 350 & 351.

Mechanical Details



Derating Curve & Application Notes



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.