

Flexible Single & Multi Output Switchers

FPS SERIES

150 Watts



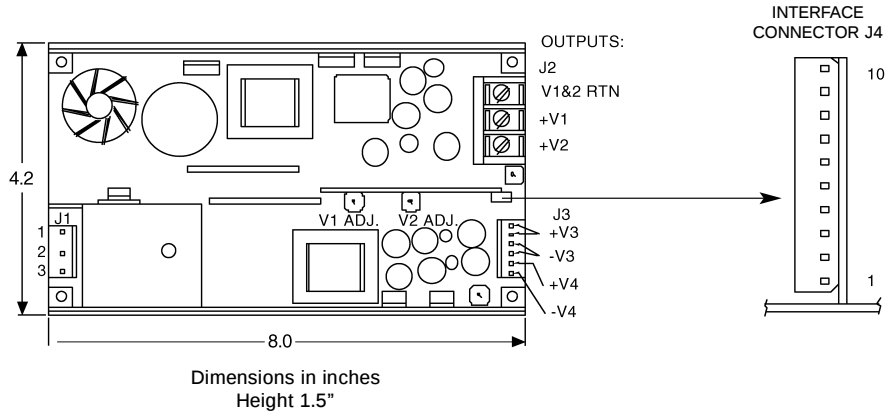
- CE Marked - LVD
- 85-264 V Universal Input
- Power Factor Corrected
- 1 To 4 Outputs
- High Power Density
- EN55022 'B' Compliant
- International Safety Approvals

SPECIFICATION

Input Voltage	• 85 - 264 V AC
Input Frequency	• 47-63 Hz nominal
Inrush Current	• <32 A pk @ 110 V AC
Earth Leakage Current	• <1.0 mA @ 230 V AC
Max Power	• 150 W continuous with 30 CFM cooling
Total Regulation	• $\pm 1\%$ output 1, $\pm 1.5\%$ output 2, $\pm 5\%$ other outputs
Transient Response	• Main o/p 1 ms (time to recover within 1% of initial voltage with 50-100% load change)
Temp Coefficient	• $\pm 0.02\%/^{\circ}\text{C}$
Over Voltage Protection	• 120% $\pm 5\%$ on main output
Short Circuit Protection	• Trip and restart
Overtemp Protection	• Unit will shut down @ 80 $^{\circ}\text{C}$
Operating Temp	• 0 $^{\circ}\text{C}$ to 70 $^{\circ}\text{C}$ with 30 CFM forced air cooling- See Derating Curve
Storage Temp	• -40 $^{\circ}\text{C}$ to 70 $^{\circ}\text{C}$
Relative Humidity	• 5 to 95% RH non-condensing
Vibration	• 1.5 G pk (operating) 0.75 G pk (non operating) - 5 to 500 Hz octaves/minute
Shock	• 100 G, half sine, one shock per direction in three axis, operating 10 G, 11 ms, half sine, one shock in each direction in three axis, non operating
Electrical safety	• EN60950, UL1950, IEC950
Hold up time	• 70 ms @ 230 V AC (full load)
Typical Efficiency	• 75% typical @ full load
Isolation	• 3 kV AC input to output, 1.5 kV AC input to earth
Weight	• <2 lbs
MTBF	• >150,000 hrs (demonstrated)

OUTPUT VOLTAGE & CURRENT RATINGS - 150 W MODELS					
Output Voltage	Voltage Adjustment	Load Current		Ripple & Noise (Pk-Pk)	Model Number
		Fan	Peak		
+3.3 V DC (V1)	3.15 V - 3.45 V	30.00 A	35.0 A	50 mV	FPS150PM41
+5.0 V DC (V2)	4.90 V - 5.50 V	15.00 A	18.0 A	50 mV	
12.0 V DC (V3)	-	3.00 A	3.0 A	120 mV	
12.0 V DC (V4)	-	3.00 A	3.0 A	120 mV	
+5.0 V DC (V1)	4.90 V - 5.50 V	30.00 A	35.0 A	50 mV	FPS150PM42
+3.3 V DC (V2)	3.15 V - 3.45 V	15.00 A	18.0 A	50 mV	
12.0 V DC (V3)	-	3.00 A	3.0 A	120 mV	
12.0 V DC (V4)	-	3.00 A	3.0 A	120 mV	
+5.0 V DC (V1)	4.90 V - 5.50 V	30.00 A	35.0 A	50 mV	FPS150PM43
+12.0 V DC (V2)	-	9.00 A	12.0 A	120 mV	
5.0 V DC (V3)	-	2.00 A	2.0 A	50 mV	
12.0 V DC (V4)	-	3.00 A	3.0 A	120 mV	
+5.0 V DC (V1)	4.90 V - 5.50 V	30.00 A	35.0 A	50 mV	FPS150PM44
+24.0 V DC (V2)	-	4.00 A	6.0 A	240 mV	
5.0 V DC (V3)	-	2.00 A	2.0 A	50 mV	
12.0 V DC (V4)	-	3.00 A	3.0 A	120 mV	
+3.3 V DC (V1)	3.15 V - 3.45 V	30.00 A	35.0 A	50 mV	FPS150PM31
+5.0 V DC (V2)	4.90 V - 5.50 V	15.00 A	18.0 A	50 mV	
12.0 V DC (V3)	-	3.00 A	3.0 A	120 mV	
+3.3 V DC (V1)	3.15 V - 3.45 V	30.00 A	35.0 A	50 mV	FPS150PM21
+5.0 V DC (V2)	4.90 V - 5.50 V	15.00 A	18.0 A	50 mV	FPS150PS03
+3.3 V DC (V1)	3.15 V - 3.45 V	30.00 A	35.0 A	50 mV	FPS150PS05
+5.0 V DC (V1)	4.90 V - 5.50 V	30.00 A	35.0 A	50 mV	FPS150PS12
+12.0 V DC (V1)	11.0 V - 13.0 V	12.50 A	15.0 A	120 mV	FPS150PS24
+24.0 V DC (V1)	23.0 V - 26.0 V	6.25 A	7.5 A	240 mV	FPS150PS48
+48.0 V DC (V1)	46.0 V - 50.0 V	3.00 A	4.0 A	480 mV	

MECHANICAL DETAILS



PIN CONNECTIONS				
J1 AC INPUT				
Pin	Single	Dual	Triple	Quad
1	Live	Live	Live	Live
2	Neutral	Neutral	Neutral	Neutral
3	Ground	Ground	Ground	Ground
J4 SIGNALS				
Pin	Single	Dual	Triple	Quad
1	Signal Ground	Signal Ground	Signal Ground	Signal Ground
2	Remote Inhibit	Remote Inhibit	Remote Inhibit	Remote Inhibit
3	Power Fail Signal	Power Fail Signal	Power Fail Signal	Power Fail Signal
4	Power Good # V1	Power Good # V1	Power Good # V1	Power Good # V1
5	No Connection	No Connection	No Connection	No Connection
6	No Connection	Load Share # V2	Load Share # V2	Load Share # V2
7	No Connection	+ Sense #V3	+ Sense #V3	+ Sense #V3
8	Load Share # V1	Load Share # V1	Load Share # V1	Load Share # V1
9	- Sense V1, V2	- Sense V1, V2	- Sense V1, V2	- Sense V1, V2
10	+ Sense # V1	+ Sense # V1	+ Sense # V1	+ Sense # V1

