

FATEK® Power Supply

Specification		Model	ADP-12V-1A	ADP-12V-2A	ADP-12V-4A	ADP-12V-7.5A	ADP-15V-6A	ADP-24V-1A	ADP-24V-2A	ADP-24V-4A	ADP-24V-5A
Input	Input nominal voltage	100 - 240 VAC									
	Input voltage range	90 - 265 VAC (127 - 375 VDC)									
	Frequency	50/60Hz									
	Maximum input current	1.0A max.	1.0A max.	1.0A max.	2.5A max.	2.5A max.	1.0A max.	1.0A max.	2.5A max.	2.5A max.	
	Inrush current (cold start)	22A/110 VAC (44A/220 VAC)									
Output	Rated output power	12W	24W	48W	90W	90W	24W	48W	96W	120W	
	Rated output voltage	12 VDC				15 VDC	24 VDC				
	Output current	1A	2A	4A	7.5A	6A	1A	2A	4A	5A	
	Output voltage range	11.8 - 14.2 VDC			11.8 - 14.2 VDC	14.8 - 18.2 VDC	23.6 - 27.4 VDC			24 - 29.2 VDC	
	Line Regulation	0.5%									
	Load Regulation	0.5%			1%		0.5%			1%	
	Conversion efficiency	80% /110VAC 81% /220 VAC	81% /110 VAC 82% /220 VAC	81% /110VAC 84% /220VAC	84% /110VAC 87% /220VAC	86% /110VAC 88% /220VAC	87% /110VAC 86% /220VAC	86% /110VAC 87% /220VAC	87% /110VAC 90% /220VAC	87% /110VAC 90% /220VAC	
	Output ripple	15mVp-p*			20mVp-p*		25mVp-p*			30mVp-p*	40mVp-p*
	Output noise	40mVp-p*			70mVp-p*		75mVp-p*			110mVp-p*	120mVp-p*
	Hold-up time	>20ms/ 110 VAC >60ms/ 220 VAC	>15ms/ 110 VAC >60ms/ 220 VAC	>15ms/ 110 VAC >50ms/ 220 VAC	>20ms/ 110 VAC >60ms/ 220 VAC	>15ms/ 110 VAC >60ms/ 220 VAC	>20ms/ 110 VAC >60ms/ 220 VAC	>15ms/ 110 VAC >60ms/ 220 VAC	>15ms/ 110 VAC >60ms/ 220 VAC	>15ms/ 110 VAC >50ms/ 220 VAC	>15ms/ 110 VAC >50ms/ 220 VAC
	Startup time	< 85ms	< 85ms	< 90ms	< 140ms	< 170ms	< 150ms	< 175ms	< 180ms	< 180ms	
Protection	Overload protection	Method	Foldback overload protection, automatically recover when overload is removed								
		Overload	110% - 140% rated output power	102% - 135% rated output power	105% - 120% rated output power	106% - 110% rated output power	110% - 135% rated output power	120% - 167% rated output power	104% - 136% rated output power	107% - 137% rated output power	105% - 110% rated output power
	Over voltage protection	Method	Latching overvoltage protection, re-power on to recover								
		overvoltage	16 - 18 VDC				20 - 22 VDC		32 - 34 VDC		
Short circuit protection		Overload protection									
Certifications	CE & UL		CE				CE & UL			CE	
Environmental	Operating temperature		-20°C - 60°C (It should be derated when the ambient temperature over 45°C · refer to derating curve.)								
	Operating humidity		20% - 90% RH Non-condensing								
	Storage temperature & humidity		-40°C - 85°C, 10% - 95% RH								
Dimension	W x H x D		60 x 90 x 73 mm			65.1 x 115.6 x78 mm		60 x 90 x73 mm		65.1 x 115.6 x78 mm	
Note 1	Derating curve										
Note 2	Output ripple & noise are measured at 20MHz bandwidth by using a twisted pair-wire in parallel with a 0.1uF ceramic & a 47 uF electrolytic capacitors.										