

FATEK[®] The Brand You Can Rely on

Power Supply



FATEK[®] AUTOMATION CORPORATION

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ADP-CV1-03-2020

FATEK® Power Supply

- Universal AC input
- High power density
- Compact design
- Convection cooled
- DIN rail
- Great reliability
- Overload protection
- Over voltage protection
- Short circuit protection
- LED power indicator
- Made of double-sided PCB
- Ultra-low output ripple and noise



		ADP-12V-1A	ADP-12V-2A	ADP-12V-4A	ADP-12V-7.5A	ADP-15V-6A	ADP-24V-1A	ADP-24V-2A	ADP-24V-3A	ADP-24V-4A	ADP-24V-5A	ADP-24V-6A	ADP-24V-8A	ADP-24V-10A			
Input	Input nominal voltage	100 - 240 VAC											200 - 240 VAC				
	Input voltage range	90 - 265 VAC (127 - 375 VDC)											110 - 265 VAC (155 - 375 VDC)		180 - 265 VAC (254 - 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.	2.0A max.	2.5A max.	2.5A max.	3.0A max.	2.0A max.	2.5A max.			
	Inrush current (cold start)	22A/110 VAC (44A/220 VAC)											44A				
Output	Rated output power	12W	24W	48W	90W	90W	24W	48W	72W	96W	120W	144W	192W	240W			
	Rated output voltage	12 VDC				15 VDC		24 VDC									
	Output current	1A	2A	4A	7.5A	6A	1A	2A	3A	4A	5A	6A	8A	10A			
	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		23.9-29.2 VDC			
	Line Regulation	0.5%											0.6%	0.7%			
	Load Regulation	0.5%			1%			0.5%				1%	0.5%		0.7%		
	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 88% /220VAC	87% /110VAC 90% /220VAC	87% /110VAC 90% /220VAC	89% /110VAC 92% /220VAC	92%				
	Output ripple	15mVp-p*		20mVp-p*			25mVp-p*			15mVp-p*	30mVp-p*	40mVp-p*	66mVp-p*	15mVp-p*			
	Output noise	40mVp-p*		70mVp-p*			75mVp-p*	70mVp-p*			30mVp-p*	110mVp-p*	120mVp-p*	100mVp-p*	35mVp-p*	40mVp-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 >60ms/ 220 VAC	>15ms/ 110 VAC >50ms/ 220 VAC	>15ms/ 110 VAC >50ms/ 220 VAC	>10ms/ 110 VAC >45ms/ 220 VAC	> 25ms	> 20ms		
	Startup time	< 85ms	< 85ms	< 90ms	< 140ms	< 170ms	< 150ms	< 175ms	< 150ms	< 180ms	< 180ms	< 120ms	< 460ms	< 420ms			
Protection	Overload protection	Foldback overload protection, automatically recover when overload is removed															
	Over voltage protection	Latching overvoltage protection, re-power on to recover															
	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 x 78 mm			60 x 90 x 73 mm			65.1 x 115.6 x 78 mm			75.1 x 130.8 x 105.7 mm			
Note 1	Derating curve	<p>Derating Curve VS. Ambient Temperature</p>					<p>Output Derating VS. Input Voltage</p>					<p>Derating Curve VS. Ambient Temperature</p>			<p>Output Derating VS. Input Voltage</p>		
		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.															
Note 2																	