

FATEK® The Brand You Can Rely on

Power Supply



FATEK® AUTOMATION CORPORATION

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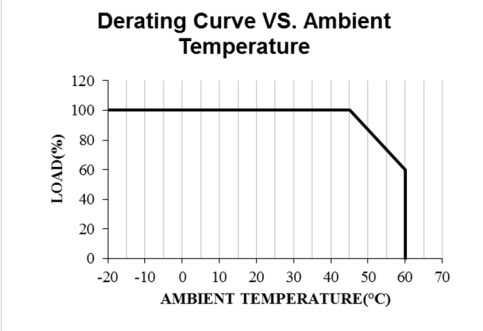
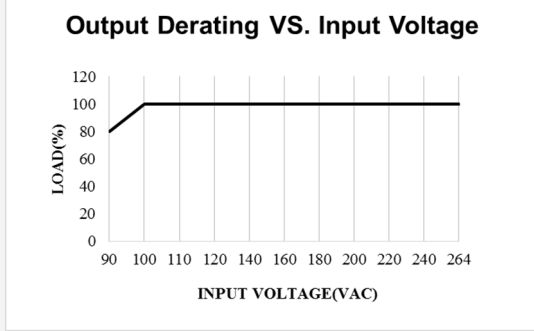
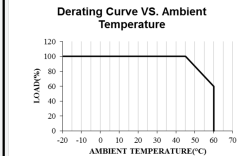
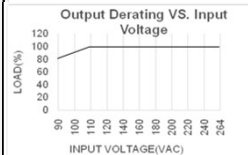
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ADP-CV1-03-2020

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	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	120% - 130% rated output power	107% - 137% rated output power	105% - 110% rated output power	110% - 140% rated output power		100% - 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℃ - 60℃ (It should be derated when the ambient temperature over 45℃ · refer to derating curve.)																	
	Operating humidity		20% - 90% RH Non-condensing																	
	Storage temperature & humidity		-40℃ - 85℃, 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			75.1 x 130.8 x105.7 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.																			