

AK50 Series 50W, Single Output Industrial Power Supply



Characteristics:

- Full Voltage Input: 85~264VAC, no need Switching Transferring
- CE-EMC, LVD Certificate
- High Reliability, low ripple&noise
- Over-load & short circuit protection
- High efficiency, high power density
- Low power consumption, no-load loss < 0.75W
- 100% load aging test
- Industrial / Military / Aerospace Products
- Dimensions: 129x98x38mm

Specifications

Part Number		AK50-S05	AK50-S12	AK50-S24	AK50-S48
Output	Output Voltage	5V	12V	24V	48V
	Output Current Range	0~10 A	0~ 4.5 A	0~2.2 A	0~1.1A
	Power Range	50W	54W	52.8W	52.8W
	Ripple&Noise(Typ.)	100mVp-p	100mVp-p	100mVp-p	100mVp-p
	Output Voltage Accuracy	±2.0%	±2.0%	±2.0%	±2.0%
	Output Voltage Regulation	4.7~5.6V	11.9~15.2V	22.9~29V	39~50.5V
	Source Effect	±1.0%	±1.0%	±1.0%	±1.0%
	Load Effect	±1.0%	±1.0%	±1.0%	±1.0%
	Startup Rise Time(Typ.)	10mS/230VAC	30mS/115VAC at full load		
	Output Hold Time(Typ.)	40mS/230VAC	15mS/115VAC at full load		
	Efficiency (%) (Typ.)	75%	81%	84%	85%
Input	Input Voltage Range	85 ~ 264VAC		70 ~ 370VDC	
	Input Frequency	47 ~ 63Hz			
	Input Current(Typ.)	1.9 A / 115VAC		0.96 A / 230VAC	
	Pulse Current(Typ.)	30 A / 115 VAC		60 A / 230 VAC	
	Leakage Current(Typ.)	<1mA at 230VAC/50Hz			
Protection	Over-Current, Short Circuit Protection, Auto Recovery				
Operating Environment	Operating Temperature	-40 ~+65 °C (Industrial Grade), -40~+75 °C (Military Grade with suffix "J"), -40~+85 °C (Aerospace Grade with suffix "H")			
	Operating Humidity	85% .RH max			
	Storage Temperature	-40 ~ +105, 10 ~ 95% RH			
	Temperature Coefficient	0.03%/ (0~ 50°C)			
	Vibration Coefficient	10~500Hz,2G10min./1cycle, 60min.each along X,Y,Z axes			
Electromagnetic Compatibility	Safety Standard	UL1012 Compliance			
	Insulation Voltage	I/P-O/P:1.5KVAC	I/P-FG:1.5KVAC	O/P-FG:0.5KVAC	
	Insulation Resistance	I/P-O/P,I/P-FG,O/P-FG:>100M Ohms/500VDC 25°C 70% RH			
	Conduction&Radiation	EN55011, EN55022 (CISPR22)			
Others	MTBF	200K hrs min.	MIL-HDBK-217F(25)		
	Dimensions	129*98*38mm (L*W*H)			