

COTEK 3000W Single Output Power Supply - AK series

Features:

- Universal AC input with active PFC
- Programmable output Voltage (30% ~ 105%)
- Programmable output Current (20% ~ 105%)
- High efficiency up to 90%
- +5V / 0.5A auxiliary output
- Intelligent LED indicators
- 3U height, high power density 10.1w / in³
- Forced current sharing at parallel operation
- Power OK signal (Power good, Logic low)
- Remote ON-OFF, Remote sense function
- Protections : OVP, OLP, OTP, SCP, Fan failure
- 3 years warranty



	Model No.	AK-3000-12	AK-3000-15	AK-3000-24	AK-3000	AK-3000-48
Output	DC Voltage Range	12V	15V	24V	27V	48V
	Rated Current	250A	200A	125A	111.1A	62.5A
	Current Range	0 ~ 250A	0 ~ 200A	0 ~ 125A	0~111.1A	0 ~ 62.5A
	Rated Power	3000W	3000W	3000W	3000W	3000W
	Ripple & Noise (Max.) Note.2	150mVp-p	150mVp-p	150mVp-p	150mVp-p	150mVp-p
	Voltage Adj. Range	±5.0% Typical adjustment by potentiometer (VR1)				
	Voltage Tolerance Note.3	±1.0%				
	Line Regulation	±0.5%				
	Load Regulation	±1.0%				
	Setup, Rise Time	800ms, 50ms at full load				
Hold Up Time (Typ.)	16ms / 230VAC at full load					
Input	Voltage Range Note.4	90 ~ 264VAC, 127 ~ 370VDC				
	Frequency Range	47 ~ 63Hz				
	Power Factor (Typ.)	EN61000-3-2 (0.98/230VAC, 0.99/115VAC at full load)				
	Efficiency (Typ.)	87%	88%	89%	89%	90%
	AC Current (Typ.)	36A/115VAC, 18A/230VAC				
	Inrush Current (Typ.)	60A/115VAC, 90A/230VAC				
Leakage Current	<5.0mA / 240VAC					
Protection	Over Load	105% rated output power Protection type: Constant current limiting, Latch-style (Recovery after reset AC power ON or inhibit)				
	Over Voltage	13.8 ~ 15.0V	17 ~ 19.0V	27.6 ~ 30.0V	31 ~ 33.75V	55.2 ~ 60.0V
	Over Temperature	85°C ± 5°C detect on heat sink of secondary side. Protection type: Shut down o/p voltage (Auto recovery after temperature goes down)				
Function	Auxiliary Power	5V @ 0.5A (+/- 3%)				
	Remote ON/OFF Control	External switch or NPN Transistor to turn ON / OFF				
	Power OK Signal	Open drain signal low when PSU turns on, Max. sink current: 20mA, Max. drain voltage: 40V.				
	Output Voltage Trim	Adjustment of output voltage is between 30 ~ 105% of rated output				
	Output Current Trim	Adjustment of output current is between 20 ~ 105% of rated output				
	Parallel (Current Sharing) Note.5	Please refer to function				
Environment	Working Temp.	-25 ~ +60°C (Refer to output load de-rating curve)				
	Working Humidity	20 ~ 90% R.H non-condensing				
	Storage Temp., Humidity	-40 ~ +85°C, 10 ~ 95% R.H				
	Temp. Coefficient	± 0.02%/°C (0 ~ 50°C)				
	Vibration	Compliance to IEC 68-2-6, IEC 68-2-64				
Safety & EMC	Safety Standards	UL 60950-1, TUV EN60950-1 approved				
	Withstand Voltage	I/P-O/P: 3KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC				
	Isolation Resistance	I/P-O/P, I/P-FG, O/P-FG: 100MΩ / 500VDC				
	EMI Conduction & Radiation	Compliance to EN55022 (CISPR22) Class B				
	Harmonic Current	Compliance to EN61000-3-2,-3				
Other	EMS Immunity	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, EN61000-6-2,EN61204-3, heavy industry level, criteria A				
	Cooling	Controlled by power rating & temperature (Internal ball bearing fan)				
	Dimension (L*W*H)	300*127*127 mm / 11.81*5.00*5.00 inch				
	Packing	6.2kg ; 2pcs / 13.4kg / 0.46 CUFT				

*Note:The specifications are subject to change without notice.