

COTEK 1000W 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
- 1U profile, high power density 11.1w / 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-1000-12 | AK-1000-15 | AK-1000-24 | AK-1000-27 | AK-1000-48 |
|----------------------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------|-------------|--------------|
| Output | DC Voltage Range | 12V | 15V | 24V | 27V | 48V |
| | Rated Current | 71A | 57A | 41A | 37A | 21A |
| | Current Range | 0 ~ 71A | 0 ~ 57A | 0 ~ 41A | 0 ~ 37A | 0 ~ 21A |
| | Rated Power | 852W | 855W | 984W | 999W | 1008W |
| | Ripple & Noise (Max.) | 150mVp-p | 150mVp-p | 150mVp-p | 150mVp-p | 150mVp-p |
| | Voltage Adj. Range | ±5.0% Typical adjustment by potentiometer (VR1) | | | | |
| | Voltage Tolerance | ±1.0% | | | | |
| | Line Regulation | ±0.5% | | | | |
| | Load Regulation | ±0.5% | | | | |
| | Setup, Rise Time | 800ms, 50ms at full load | | | | |
| Hold Up Time (Typ.) | 16ms / 230VAC at full load | | | | | |
| Input | Voltage Range | 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.) | 12A / 115VAC, 6A / 230VAC | | | | |
| | Inrush Current (Typ.) | 25A / 115VAC, 40A / 230VAC | | | | |
| Leakage Current | <2.0mA / 240VAC | | | | | |
| Protection | Over Load | 105% rated output power Protection type: Total power limiting, Latch-style (Recovery after reset AC power ON or inhibit) | | | | |
| | Over Voltage | 13.8 ~ 15.0 | 17 ~ 19.0V | 27.6 ~ 30.0V | 31 ~ 33.75V | 55.2 ~ 60.0V |
| | Over Temperature | 90°C ± 5°C detect on heat sink of primary side, 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) | 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) | | | | |
| Safety & EMC | Vibration | Compliance to IEC 68-2-6, IEC 68-2-64 | | | | |
| | 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) | 283*127*41 mm / 11.14*5.00*1.61 inch | | | | |
| Packing | 1.90kg ; 8pcs / 16.2kg / 0.83CUFT | | | | | |

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