

KG-175D Power Supply

Information
ASSURANCE
SPECIALISTS



www.IASpecialists.com
202-640-2623

■ Features :

- Universal AC input / Full range
- 3 pole AC inlet IEC320-C14
- Protections: Short circuit / Overload / Over voltage/ Over temperature
- Fully enclosed plastic case
- Approvals: UL / CUL / TUV / BSMI / CCC / CB / FCC / CE
- Class I power (with earth pin)
- Pass LPS
- LED indicator for power on
- No load power consumption<0.3W
- ENERGY STAR compliant
- Meet EISA 2007(Energy Independence and Security Act)
- 2 years warranty



SPECIFICATION

ORDER NO.		IAS-PS-KG-175D	
OUTPUT	DC VOLTAGE	Note.2	12V
	RATED CURRENT		5A
	CURRENT RANGE		0 ~ 5A
	RATED POWER (max.)		60W
	RIPPLE & NOISE (max.)	Note.3	100mVp-p
	VOLTAGE TOLERANCE	Note.4	±3.0%
	LINE REGULATION	Note.5	±1.0%
	LOAD REGULATION		±3.0%
INPUT	SETUP, RISE TIME	Note.7	600ms, 30ms / 230VAC 600ms, 30ms / 115VAC at full load
	HOLD UP TIME (Typ.)		50ms / 230VAC 15ms / 115VAC at full load
	VOLTAGE RANGE		90 ~ 264VAC 135 ~ 370VDC
	FREQUENCY RANGE		47 ~ 63Hz
	EFFICIENCY (Typ.)		88%
	AC CURRENT		1.4A / 115VAC 1A / 230VAC
PROTECTION	INRUSH CURRENT (max.)		65A / 230VAC
	LEAKAGE CURRENT(max.)		0.75mA / 240VAC
	OVERLOAD		105 ~ 150% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed
	OVER VOLTAGE		12.6 ~ 16.2V Protection type : Shut down o/p voltage, re-power on to recover
ENVIRONMENT	OVER TEMPERATURE		RTH2 > 70°C Protection type : Shut down o/p voltage, re-power on to recover
	WORKING TEMP.		-10 ~ +50°C (Refer to output load derating curve)
	WORKING HUMIDITY		20% ~ 90% RH non-condensing
	STORAGE TEMP., HUMIDITY		-20 ~ +85°C, 10 ~ 95% RH
	TEMP. COEFFICIENT		±0.03% / °C (0 ~ 50°C)
SAFETY & EMC (Note. 6)	VIBRATION		10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes
	SAFETY STANDARDS		UL60950-1, TUV EN60950-1, BSMI CNS14336, CCC GB4943 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:100M Ohms / 500VDC / 25°C / 70% RH
	EMI CONDUCTION & RADIATION		Compliance to EN55022 class B, FCC PART 15 / CISPR22 class B, CNS13438 class B, GB9254 class B
	HARMONIC CURRENT		Compliance to EN61000-3-2,3, GB17625.1
OTHERS	EMS IMMUNITY		Compliance to EN61000-4-2,3,4,5,6,8,11, light industry level, criteria A
	MTBF		711Khrs min. MIL-HDBK-217F(25°C)
	DIMENSION		125*50*31.5mm (L*W*H)
	PACKING		0.305Kg; 40pcs/13.02Kg/1.05CUFT

NOTE

1. All parameters are specified at 230VAC input, rated load, 25°C 70% RH ambient.
2. DC voltage: The output voltage set at point measure by plug terminal & 50% load.
3. Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor.
4. Tolerance: includes set up tolerance, line regulation, load regulation.
5. Line regulation is measured from low line to high line at rated load.
6. The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives.
7. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.