



Features

- . Wide input 90V to 264VAC, 50~60Hz suitable for worldwide
- . Output voltage selectable from 12V to 56Vdc constant voltage
- . Class B Conducted and Radiated EMI for information devices
- . Meet ErP & DoE efficiency level VI requirements
- . No load power consumption < 0.21 W
- . High Efficiency up to 89% and power factor up to 0.98
- . Over-Voltage/Load/Temperature & Short Circuit protections

Safety Standards

- . IEC62368-1 CB report for worldwide use
- . UL62368-1 + CAN/CSA 62368-1 for USA and Canada
- . EN 62368-1:2014/A11:2017 for European Union
- . AS/NZS 62368.1:2018 for Australia and New Zealand
- . J62368-1 for Japan and K60950-1 for Korea market.



Product Description:

It is a highly reliable 200W desktop style switching power adapter solution with wide range 90-264Vac input and designed strictly according to the international safety standards. Equipped with a standard IEC320-C6/C8/C14 AC inlet. The entire series supplies different models with output voltages ranging between 12Vdc and 56Vdc that can satisfy the demands for various types of consumer electronic devices, office facilities, industrial equipment and so on.

With the efficiency up to 91% and no load consumption power <0.21W, this 200W power adapter is built-in active PFC with PF>0.98. The entire series utilizes the 94V-0 flame retardant plastic housing and the temperature resistance is up to 120 degrees.

Technical Specification

| Typ. Model | KA1181120C | KA1181240K | KA1181320L | KA1181420L | KA1181560M |
|------------------------|--|------------|------------|------------|------------|
| Output | | | | | |
| Output Voltage | 12VDC | 24VDC | 32VDC | 42VDC | 56VDC |
| Output Current | 14.16A Max. | 8.3A Max. | 6.25A Max. | 4.76A Max. | 3.57A Max. |
| Output Power | 170W Max. | 200W Max. | 200W Max. | 200W Max. | 200W Max. |
| Voltage Tolerance | ±5% | ±5% | ±5% | ±5% | ±5% |
| Ripple & Noise | 200mVp-p | 200mVp-p | 250mVp-p | 300mVp-p | 400mVp-p |
| Standby Power | ≤0.21W | ≤0.21W | ≤0.21W | ≤0.21W | ≤0.21W |
| Input | | | | | |
| Input voltage | 90 - 264Vac or 127- 374Vdc | | | | |
| Input Frequency | 50-60Hz (When the input is AC) | | | | |
| Input Current | 2.5A Max. @ 100 ~240Vac 50/60Hz input | | | | |
| Inrush Current | 120A Max. @ 100 ~240Vac 50/60Hz input | | | | |
| Power Factor | >0.98 @ 120Vac 60Hz input; >0.95 @230Vac 50Hz input | | | | |
| Efficiency (Typ.) | 90% | 90% | 91% | 91% | 91% |
| Leakage Current | ≤0.25mA @ full input range | | | | |
| Protections | | | | | |
| Over current | 110~150% rated output power. Auto-Recovery when the fault is removed | | | | |
| Short Circuit | No damage. Auto-Recovery when the fault is removed | | | | |
| Over temperature | Shut down o/p voltage, re-power on to recover | | | | |
| Environmental | | | | | |
| Operation Temperature | 0°C to +40°C, 10%RH to 90%RH | | | | |
| Operation Altitude | ≤2000m @ full load and rated operating temperatures | | | | |
| MTBF | ≥50000Hrs @ full load and rated operating temperatures | | | | |
| Mechanical | | | | | |
| Dimensions (W x L x H) | 166.0 x 83.0 x 28.0mm (6.54 x 3.27 x 1.10 inch) | | | | |
| Unit Weight | 450g±15 grams | | | | |
| Packing Information | 25pcs/ Carton, carton dimensions:47*37*20cm, 12.3kgs/ Carton | | | | |

TEST REPORT

OUTPUT FUNCTION TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDIDTION | RESULT | VERDICT |
|----|-------------------|-----------------|--|-----------------------------------|---------|
| 1 | RIPPLE & NOISE | 120mVp-p (Max) | I/P:230VAC / O/P:FULL LOAD / Ta:25°C | 55mVp-p | P |
| 2 | VOLTAGE TOLERANCE | -5% ~ +5% (Max) | I/P:90VAC~264VAC O/P:FULL~MIN. LOAD / Ta:25°C | -2% ~ +2% of output voltage | P |
| 3 | LINE REGULATION | -1% ~ +1% (Max) | I/P:90VAC ~264VAC O/P:FULL LOAD / Ta:25°C | -0.05% ~ +0.05% of output voltage | P |
| 4 | LOAD REGULATION | -3% ~ +3% (Max) | I/P:230VAC O/P:FULL ~MIN LOAD / Ta:25°C | -0.98% ~ +0.98% of output voltage | P |
| 5 | SET UP TIME | 3000 mS (Max) | I/P:230VAC O/P:FULL LOAD / Ta:25°C | 2300 mS | P |
| 6 | RISE TIME | 100 mS (Max) | I/P: 230VAC O/P:FULL LOAD / Ta:25°C | 35 mS | P |
| 7 | HOLD UP TIME | 8.3 mS (Min) | I/P: 115VAC O/P:FULL LOAD / Ta:25°C | 16 mS | P |

INPUT FUNCTION TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDIDTION | RESULT | VERDICT |
|----|---------------------------|------------------------------------|--|--------------------------------------|---------|
| 1 | VOLTAGE RANGE | 90VAC~264VAC | I/P:TESTING O/P:FULL LOAD / Ta:25°C | 82V~264V | P |
| 2 | FREQUENCY RANGE | 50HZ - 60HZ (Typ) NO DAMAGE OSC | I/P: 100VAC ~ 240VAC O/P:FULL~MIN LOAD / Ta:25°C | TEST: OK | P |
| 3 | EFFICIENCY | 89% (Typ) | I/P:230VAC O/P:FULL LOAD / Ta:25°C | 90.5% | P |
| 4 | AVERAGE EFFICIENCY | >88% (LEVEL VI) | I/P:115/230VAC & O/P:25%、50%、75%、100% LOAD & Ta:25°C | 88.93% (115VAC) 89.7696% (230VAC) | P |
| 5 | AC CURRENT | 2.0A (Max) | I/P:100VAC & O/P:FULL LOAD Ta:25°C | 1.35A | P |
| 6 | NO LOAD POWER CONSUMPTION | <0.21W | I/P: 230VAC /O/P:NO LOAD Ta:25°C | 0.17W | P |
| 7 | INRUSH CURRENT | <80A COLD START | I/P: 230VAC / O/P:FULL LOAD Ta:25°C | 46.98A | P |
| 8 | LEAKAGE CURRENT | < 0.25mA | I/P:240VAC & O/P:Min LOAD Ta:25°C | L-FG:0.16mA N-FG:0.15mA | P |

PROTECTION FUNCTION TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDIDTION | RESULT | VERDICT |
|----|-------------------------|--|---------------------------------------|--------------------------|---------|
| 1 | OVER LOAD PROTECTION | 110 ~ 150% (Typ) | I/P:230VAC & O/P:TESTING Ta:25°C | 139.1% HICCUP MODE | P |
| 2 | OVER VOLTAGE PROTECTION | CLAMP BY ZENER DIODE 115 ~ 135% (Typ) | I/P:230VAC O/P:MIN LOAD & Ta:25°C | CLAMP BY ZENER DIODE | P |
| 3 | SHORT PROTECTION | SHORT OUTPUT 1 HOUR NO DAMAGE | I/P:264VAC O/P:FULL LOAD & Ta:25°C | NO DAMAGE HICCUP MODE | P |

SAFETY TEST & E.M.C TEST

| NO | TEST ITEM | SPECIFICATION | TEST CONDIDTION | RESULT | VERDICT |
|----|----------------------|---|---|---|---------|
| 1 | WITHSTAND VOLTAGE | I/P-O/P: 3KVAC/min I/P- FG: 2KVAC/min O/P-FG:0.5KVAC/min | I/P-O/P: 3.6 KVAC/min I/P-FG: 2.4 KVAC/min O/P-FG:0.6 KVAC/min Ta:25°C | I/P-O/P:1.729mA I/P-FG: 3.425mA O/P-FG:0.485mA NO DAMAGE | P |
| 2 | ISOLATION RESISTANCE | I/P-O/P:500VDC>100MΩ I/P-FG: 500VDC>100MΩ O/P-FG:500VDC>100MΩ | I/P-O/P: 500 VDC I/P-FG: 500 VDC O/P-FG: 500 VDC Ta:25°C | I/P-O/P: 9999MΩ I/P-FG: 9999MΩ O/P-FG:9999 MΩ NO DAMAGE | P |
| 3 | CONDUCTION | BS EN/EN55032(CISPR32), FCC PART 15 / CISPR22 CAN | I/P: 230 VAC (50HZ) O/P: FULL/50% LOAD Ta: 25°C | PASS Test by certified Lab | P |
| 4 | RADIATION | BS EN/EN55032(CISPR32), FCC PART 15 / CISPR22 CAN | I/P: 230 VAC (50HZ) O/P: FULL LOAD Ta: 25°C | PASS Test by certified Lab | P |
| 5 | SURGE | BS EN/EN61000-4-5 LIGHT INDUSTRY L-N: 1KV | I/P: 230 VAC/50HZ O/P: FULL LOAD Ta: 25°C | CRITERIA B | P |
| 6 | E.S.D | BS EN/EN61000-4-2 LIGHT INDUSTRY AIR: 8KV / Contact: 4KV | I/P: 230 VAC/50HZ O/P: FULL LOAD Ta: 25°C | CRITERIA B | P |

| TEST RESULT | TESTER | REVIEW | APPROVAL |
|-------------|--------|--------|----------|
| PASS | LINDA | JUDY | ZHANG DL |