



### Features :

- Constant current mode power supply
- 100-240VAC input only
- Fully encapsulated with IP67 level
- Protections: Short circuit/Over current
- Built-in active PFC function
- Small and compact size
- UL1310 Class 2 power unit, pass LPS
- 100% full load burn-in test
- Suitable for LED lighting and moving sign applications
- 2 years warranty

### SPECIFICATION:

| MODEL        |                            | LA20P-350  | LA20P-700     |
|--------------|----------------------------|--|---------------|
| OUTPUT       | DC VOLTAGE                 | 48V  | 30V           |
|              | DC VOLTAGE RANGE           | 12-48V   | 9-30V         |
|              | CURRENT RANGE              | 350mA ±3%  | 700mA ±3%     |
|              | RATED POWER                | 16.8W  | 21.0W         |
|              | RIPPLE & NOISE (max.)      | 200mVp-p   | 200mVp-p      |
|              | VOLTAGE TOLERANCE          | ±3.0%  |               |
|              | LINE REGULATION            | ±1.0%  |               |
|              | LOAD REGULATION            | ±2.0%  |               |
|              | SETUP,RISE TIME            | 500ms,250ms/230VAC 500ms,250ms/115ac at full load  |               |
| INPUT        | VOLTAGE RANGE              | 100-240VAC   |               |
|              | FREQUENCY RANGE            | 47~63Hz  |               |
|              | EFFICIENCY(Typ.)           | 80% full load  | 80% full load |
|              | POWER FACTOR               | PF>0.85/230VAC at full load  |               |
|              | AC CURRENT(at full load)   | 0.4A/100VAC  | 0.2A/240VAC   |
|              | INRUSH CURRENT (max.)      | COLD STAT 70A/240VAC 35A/120VAC at full load   |               |
|              | LEAKAGE CURRENT            | 0.25mA/240VAC  |               |
| PROTECT ON   | OVER CURRENT               | Above 105% rated output power.<br>Protection type: Hiccup mode, recovers automatically after fault condition is removed.             |               |
|              | OVER TEMPERATURE           | Tj 140℃ typically(IC1) Detect on main control IC<br>Protection type: Hiccup mode, recovers automatically after temperature goes down |               |
| ENVIRONMENT  | WORKING TEMP.              | -10~50℃  |               |
|              | WORKING HUMIDITY           | 20~90% RH non-condensing   |               |
|              | STORAGE TEMP., HUMIDITY    | -40~80℃, 10~95% RH   |               |
|              | TEMP.COEFFICIENT           | ±0.03%/℃ (0~50℃)   |               |
|              | VIBRATION                  | 10~500Hz, 2G 10min./1cycle, period for 60min. each along X,Y, Z axes   |               |
| SAFETY & EMC | SAFETY STANDARDS           | Design refer to UL1310 Class 2,TUV EN60950-1, EN61347-2-13, CAN/CSA C22.2 No. 223-M91, meet IP67                                     |               |
|              | WITHSTAND VOLTAGE          | I/P-O/P:3KVAC  |               |
|              | ISOLATION RESISTANCE       | I/P-O/P:>100M Ohms / 500VDC / 25~70% RH  |               |
|              | EMI CONDUCTION & RADIATION | Compliance to EN55022 (CISPR22) Class B  |               |
|              | HARMONIC CURRENT           | Compliance to EN61000-3-2,-3   |               |
|              | EMS IMMUNITY               | Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, light industry level, criteria A  |               |
| DIMENSION    |                            | 140*30*22mm (L*W*H)  |               |

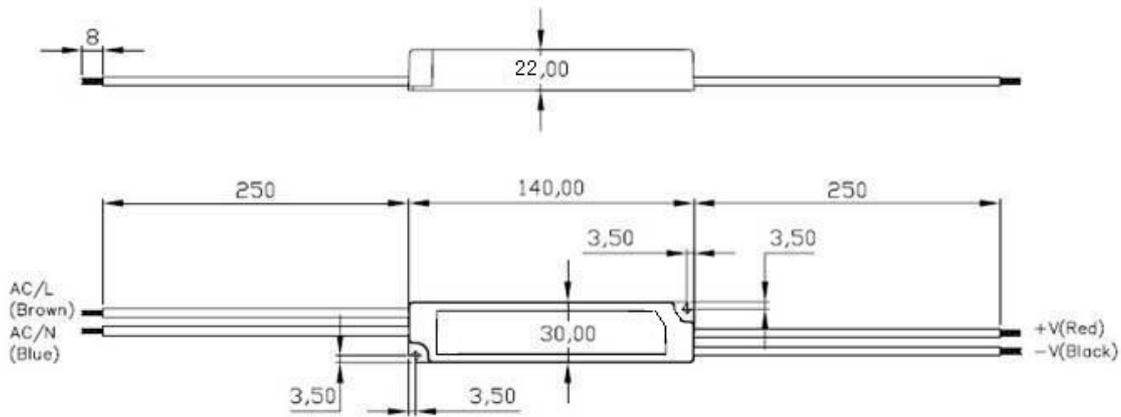
**HGPOWER**<sup>®</sup>

20W Single Output Switching Power Supply

**LA20P** Series

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### Mechanical Specification



### Block Diagram

