**Features:**
- Constant voltage design
- Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- Protections: Short circuit / Over load / Over voltage
- Cooling by free air convection
- Small and compact size
- Fully encapsulated with IP67 level (Note 7)
- Fully isolated plastic case
- Class II power unit, no FG
- Class 2 power unit
- Pass LPS
- Suitable for LED related fixture or appliance
  (such as LED Decoration or Advertisement devices)
- 100% full load burn-in test
- Low cost, high reliability
- 2 years warranty

### Specification

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DC VOLTAGE</th>
<th>RATED CURRENT</th>
<th>CURRENT RANGE</th>
<th>RATED POWER</th>
<th>RIPPLE &amp; NOISE (max)</th>
<th>VOLTAGE TOLERANCE</th>
<th>LINE REGULATION</th>
<th>LOAD REGULATION</th>
<th>SETUP, RISE TIME</th>
<th>HOLD UP TIME</th>
<th>VOLTAGE RANGE</th>
<th>FREQUENCY RANGE</th>
<th>EFFICIENCY (Typ.)</th>
<th>AC CURRENT (Typ.)</th>
<th>INRUSH CURRENT (Typ.)</th>
<th>MAX. No. of PSUs on 16A</th>
<th>CIRCUIT BREAKER</th>
</tr>
</thead>
<tbody>
<tr>
<td>LPV-20-5</td>
<td>5V</td>
<td>3A</td>
<td>0 ~ 3A</td>
<td>15W</td>
<td>80mVp-p</td>
<td>±5.0%</td>
<td>±1.0%</td>
<td>±2.0%</td>
<td>500ms, 20ms / 230VAC</td>
<td>500ms / 230VAC</td>
<td>90 ~ 264VAC</td>
<td>47 ~ 63Hz</td>
<td>77%</td>
<td>0.55A/115VAC</td>
<td>COLD START 70A [215μs measured at 50% (peak)]</td>
<td>8 units (circuit breaker of type B) / 14 units (circuit breaker of type C)</td>
<td>0.25mA / 240VAC</td>
</tr>
<tr>
<td>LPV-20-12</td>
<td>12V</td>
<td>1.67A</td>
<td>0 ~ 1.67A</td>
<td>20W</td>
<td>120mVp-p</td>
<td>±5.0%</td>
<td>±1.0%</td>
<td>±2.0%</td>
<td>500ms, 20ms / 230VAC</td>
<td>500ms / 230VAC</td>
<td>127 ~ 370VDC</td>
<td>47 ~ 63Hz</td>
<td>81%</td>
<td>0.35A/230VAC</td>
<td>COLD START 70A [215μs measured at 50% (peak)]</td>
<td>8 units (circuit breaker of type B) / 14 units (circuit breaker of type C)</td>
<td>0.25mA / 240VAC</td>
</tr>
<tr>
<td>LPV-20-15</td>
<td>15V</td>
<td>1.33A</td>
<td>0 ~ 1.33A</td>
<td>20W</td>
<td>120mVp-p</td>
<td>±5.0%</td>
<td>±1.0%</td>
<td>±2.0%</td>
<td>500ms, 20ms / 230VAC</td>
<td>500ms / 230VAC</td>
<td>127 ~ 370VDC</td>
<td>47 ~ 63Hz</td>
<td>83%</td>
<td>0.35A/230VAC</td>
<td>COLD START 70A [215μs measured at 50% (peak)]</td>
<td>8 units (circuit breaker of type B) / 14 units (circuit breaker of type C)</td>
<td>0.25mA / 240VAC</td>
</tr>
<tr>
<td>LPV-20-24</td>
<td>24V</td>
<td>0.84A</td>
<td>0 ~ 0.84A</td>
<td>20W</td>
<td>150mVp-p</td>
<td>±5.0%</td>
<td>±1.0%</td>
<td>±2.0%</td>
<td>500ms, 20ms / 230VAC</td>
<td>500ms / 230VAC</td>
<td>24V</td>
<td>47 ~ 63Hz</td>
<td>83%</td>
<td>0.35A/230VAC</td>
<td>COLD START 70A [215μs measured at 50% (peak)]</td>
<td>8 units (circuit breaker of type B) / 14 units (circuit breaker of type C)</td>
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</tr>
</tbody>
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### Note
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple & noise are measured at 20MHz of bandwidth by using a 12” twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
3. Tolerance : includes set up tolerance, line regulation and load regulation.
4. Derating may be needed under low input voltage. Please check the static characteristics for more details.
5. The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.
6. 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.
7. Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minute.
8. The unit might not be suitable for lighting applications in EU countries. Please check with your local authorities for the possible use of the unit.
9. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m (6500ft).
10. Products sourced from the Americas regions may not have the TUV/BIS/CCC logo. Please contact your MEAN WELL sales for more information.
11. For any application note and IP water proof function installation caution, please refer our user manual before using.

**Mechanical Specification**

- Case No. 972A
- Unit: mm

**Recommended Mounting Direction**

**Block Diagram**

- f osc: 65 KHz

**Derating Curve**

**Static Characteristics**