# IP67 Rated AC-DC Converters

## PS12MK, PS20MK & PS36MK Series

### 10 to 36 Watts Switch Mode

#### Features

- Universal Input Range 90-264VAC
- Wall or chassis mounting
- Over Voltage, Short Cct & Over Current Protection
- Operating Temperature Range of -10 to 40°C
- No Load Power Consumption ≤0.3W max
- · IP67 rated fully encapsulated enclosure
- · Class II Safety

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| Electrical Specification           |  |
|------------------------------------|--|
| Input Voltage Range                | 90-264VAC  |
| Input Current                      | 0.6A max.  |
| Frequency                          | 47-63Hz  |
| Isolation - Input/Output           | 3000VAC  |
| Leakage Current                    | 250µA max. at 240VAC 60Hz  |
| Insulation Resistance              | >100M Ohm/500VAC 10mA for 1 minute between primary & secondary         |
| Hi-Pot Test                        | 3000VAC 5mA between primary & secondary for 60 seconds                 |
| DC Output                          | see table  |
| Input & Output Connector Type      | Optional   |
| Load Regulation                    | ±5%  |
| Ripple & Noise                     | 1% Vout max  |
| No Load Standby Power              | ≤0.3W  |
| Efficiency                         | minimum 77% at full load   |
| Hold-up Time                       | 5ms minimum at 115VAC 60Hz full load                                   |
| Turn On Delay                      | 3s max.  |
| Overshoot                          | 8% max.  |
| Short Circuit Protection           | continuous, auto-recovery after fault removed                          |
| Over Voltage Protection            | output will shutdown, auto recovery                                    |
| Over Current Protection            | self limiting auto recovery  |
| Operating Temperature Range        | -10 to +40°C (for extended temperature operation consult sales office) |
| Storage Temperature Range          | -10 to +70°C   |
| Humidity                           | 10 to 90% RH, non-condensing   |
| Safety                             | CE, EN60950, cTUVus approvals  |
| EMC                                | EN55022 class B, FCC 15 class B, CISPR 22 class B                      |
| Mechanical (IP67 potted enclosure) | PS12MK 56 x 39 x 26mm, PS20MK 64 x 47 x 28mm, PS36MK 133 x 50 x 34mm   |

| Output Voltage & Current Ratings |            |           |             |           |            |  |  |
|----------------------------------|------------|-----------|-------------|-----------|------------|--|--|
| MODEL                            | OUTPUT     | MODEL     | OUTPUT      | MODEL     | OUTPUT     |  |  |
| PS12MK-05                        | 5VDC 2A    | PS20MK-05 | 5VDC 3A     | PS36MK-05 | 5VDC5A     |  |  |
| PS12MK-09                        | 9VDC 1.2A  | PS20MK-09 | 9VDC 2A     | PS36MK-09 | 9VDC 4A    |  |  |
| PS12MK-12                        | 12VDC 1.0A | PS20MK-12 | 12VDC 1.5A  | PS36MK-12 | 12VDC 3A   |  |  |
| PS12MK-15                        | 15VDC 0.8A | PS20MK-15 | 15VDC 1.2A  | PS36MK-15 | 15VDC 2.4A |  |  |
| PS12MK-24                        | 24VDC 0.5A | PS20MK-24 | 24VDC 0.83A | PS36MK-24 | 24VDC 1.5A |  |  |

NOTE: Input and outputs are via flying leads and these can be ordered with connectors of your choice. These products are manufactured to order and may be subject to minimum order quantities