

# IP67 Rated AC-DC Converters



## PS12MK, PS20MK & PS36MK Series

[www.powersolve.co.uk](http://www.powersolve.co.uk)

### 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  $\leq 0.3W$  max
- IP67 rated fully encapsulated enclosure
- Class II Safety



#### Electrical Specification

Input Voltage Range	90-264VAC
Input Current	0.6A max.
Frequency	47-63Hz
Isolation - Input/Output	3000VAC
Leakage Current	250 $\mu$ A 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	$\pm 5\%$
Ripple & Noise	1% Vout max
No Load Standby Power	$\leq 0.3W$
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
<a href="#">PS12MK-05</a>	5VDC 2A	<a href="#">PS20MK-05</a>	5VDC 3A	<a href="#">PS36MK-05</a>	5VDC 5A
<a href="#">PS12MK-09</a>	9VDC 1.2A	<a href="#">PS20MK-09</a>	9VDC 2A	<a href="#">PS36MK-09</a>	9VDC 4A
<a href="#">PS12MK-12</a>	12VDC 1.0A	<a href="#">PS20MK-12</a>	12VDC 1.5A	<a href="#">PS36MK-12</a>	12VDC 3A
<a href="#">PS12MK-15</a>	15VDC 0.8A	<a href="#">PS20MK-15</a>	15VDC 1.2A	<a href="#">PS36MK-15</a>	15VDC 2.4A
<a href="#">PS12MK-24</a>	24VDC 0.5A	<a href="#">PS20MK-24</a>	24VDC 0.83A	<a href="#">PS36MK-24</a>	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