



## 2.5W Compact Fixed Blade Charger (United Kingdom) EPS Version 2.0 Compliant USB Adapter



### Features

- Fixed Blade
- CC & CV control
- EPS 2.0 (Efficiency Level V) \*
- Low Cost
- 5 Star Standby power <0.03W
- No Y Cap

### Applications

- MPEG Players
- PDA
- Personal Electronics
- Digital Camera

### Safety Approvals

- cUL/UL
- IEEE1725 Approved
- CE
- Energy Star

### Mechanical Characteristics

- Length: 42mm (1.65in)
- Width: 43mm (1.65in)
- Height: 21.0mm (0.87in)
- Weight: 80g (3oz)

### Output Specifications

Model	DC Output Voltage	Load		Ripple (1)	Regulation	
		Min.	Max.	P-P (max)	Line	Load
PSM03K-050Q	5V	0A	0.55A	100mV	±5%	

Note: (1) Measured after 10 minutes with by-pass capacitors 0.1uF // 10uF at output connector terminal and oscilloscope set at 20MHz.

**INPUT:**

**AC Input Voltage Rating**  
100 to 240VAC

**AC Input Voltage Range**  
90 to 264VAC

**AC Input Current**  
0.1A(RMS) max.

**Leakage Current**  
0.25mA max. @ 230VAC

**Inrush Current (cold)**  
<30A for 120VAC at max. load  
<60A for 240VAC at max. load  
(Cold start @ ambient 25°C)

**Input Power Saving**  
<0.15W max. @ 230VAC at no load

**OUTPUT:**

**Power**  
2.75W Maximum

**Efficiency**  
EPS 2.0 Level V  
63.7% minimum average efficiency

**No-Load Power Saving**  
0.03W maximum at 115VAC/230VAC

**Hold-up Time**  
10mS min. @ 120VAC and max. load

**Over-voltage Protection**

>120%, Zener Clamp

**ENVIRONMENTAL:**

**Temperature**

Operation -10 to +40°C  
Non-operation -40 to +85°C

**Humidity**

Operation 10 to 90%

**Immunity**

ESD: EN61000-4-2. Level 4  
Surge: EN61000-4-5. Level 4  
Harmonic: EN61000-3-2  
Flicker: EN61000-3-3

**Emissions**

FCC Class B  
EN55022 Class B

**Dielectric Withstand (Hi-pot) Test**

Primary to Secondary: 3000VAC

**Insulation Resistance**

Primary to Secondary: 7M ohm 500VDC

**MTBF**

200K hours minimum at 120VAC, max load  
(measured at ambient 25°C)

**DC Output Connector**

USB A  
D+ and D- pins shorted together inside the charger

**Dimension Diagram Unit: mm**

