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# 2.5W Compact Fixed Blade Charger **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	Load		Ripple (1)	Regulation	
	Voltage	Min.	Max.	P-P (max)	Line	Load
PSM03A-050Q	5V	0A	0.55A	100mV	±5%	

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

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## PSM03A Characteristics

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## **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

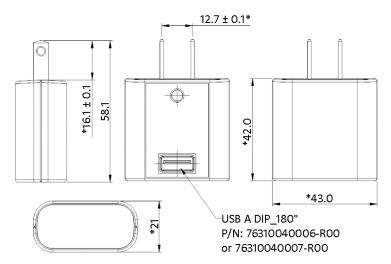
**No-Load Power Saving** 

0.03W maximum at 115VAC/230VAC

**Hold-up Time** 

10mS min. @ 120VAC and max. load

## **Dimension Diagram Unit: mm**



# **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