# EB2412 series

12V / 2A Wall mounted type AC/DC adaptor



#### ■ Features:

- Universal AC input / Full range
- Wall mounted type, Isolation class II design
  - ErP step II / CEC level VI compliance
  - No load power consumption P < 0.075W
- Protections: Overload / Short circuit / Over Temperature













### **ELECTRICAL SPECIFICATION**

| MODEL                     | EB2412                             |
|---------------------------|------------------------------------|
| OUTPUT                    |                                    |
| Rated Voltage             | 12V                                |
| Rated Current             | 2A                                 |
| Current Range             | 0 ÷ 2A                             |
| Rated Power               | 24W                                |
| Line Regulation           | ± 2%                               |
| Load Regulation           | ± 5%                               |
| Tolerance [3]             | ± 8%                               |
| Ripple & Noise (max.) [2] | 150mV <sub>P-P</sub>               |
| Setup, RiseTime [4]       | 1000ms, 20ms / 230VAC at full load |
| Hold up Time (typ.)       | 10ms / 230VAC at full load         |

| INPUT                            |                                |
|----------------------------------|--------------------------------|
| Voltage Range                    | 90 ÷ 264VAC                    |
| Frequency Range                  | 47 ÷ 63Hz                      |
| Efiiciency (typ.)                | 86%                            |
| AC Current (typ.)                | 0.46A / 115VAC, 0.22A / 230VAC |
| No load Power Consumption (max.) | 0.075W                         |

| PROTECTIONS     |   |
|-----------------|---|
| Overload        | Range: 140-180%                               |
|                 | Type: hiccup mode, auto-recovery.             |
| Short Circuit   | Type: hiccup mode, auto-recovery.             |
| OverTemperature | 140°C±10°C(detect on main control IC)         |
|                 | Type: shut off output voltage, auto-recovery. |

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### **WORKING ENVIRONMENT**

| Working Temperature              | 0°C ÷ 40°C                              |
|----------------------------------|---|
| Working Humidity                 | 10 ÷ 90% RH non-condensing              |
| Storage Temperature and Humidity | -20°C ÷ 85°C, 5 ÷ 90% RH non-condensing |

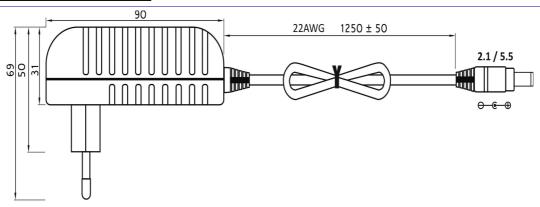
| SAFETY and EMC REGULATIONS |  |
|----------------------------|--|
| Safety Standards           | Compliance to EN 60950-1               |
| Withstand Voltage          | IN/OUT: 3.6kVAC                        |
| Isolation Resistance       | IN/OUT: 50MΩ/500VDC/25°C/70%           |
| EMC Emission               | Compliance to EN55032                  |
| EMC Immunity               | Compliance to EN61000-4-2, -3, -4, -5  |
| Harmonic Current           | Compliance to EN61000-3-3; EN61000-3-2 |

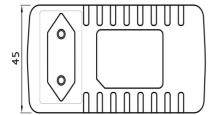
| OTHERS           |   |
|------------------|---|
| DC wire and plug | Wire: 18AWG*2C, length = 125cm ±50mm Plug: 2.1/5.5, positive inside |
| Dimensions       | 90 x 45 x 69mm (L x W x H)  |
| Net Weight       | 115g  |
| EAN Code         |   |



- 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1µF i 47µF parallel capacitor.
- 3. Tolerance includes set up tolerance, line regulation and load regulation.
- 4. Setup and rise time is measured from 0 to 90% rated output voltage.
- 5.Power supply is considered as component not indented to apply by end-user. Power supply meets safety and EMC standards however the final equipment with power supply must be re-quality to comply with EMC Directives.

### **MECHANICAL SPECIFICATION**





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