

UMDE 36W P Series

Medical AC/DC Adaptor Peak Power



▲ UMDEI3036-XXXXXXPA



▲ UMDEB3036-XXXXXXPA



■ Please contact our sales department for safety standard of each model.



Product Highlights

- Stability
- Energy and High Efficiency
- Peak load 1.2 sec function
- Peak load is 170% rating output at most.
- Suitable for printers/motors/pump/amplifier products
- 2xMOPP
- Suitable for medical equipment

Protection

- Short Circuit Protection
- Over Voltage Protection
- Over Current Protection
- Over Temperature Protection (Optional)

Safety Standard

- 60601-1
- PSE 別表第八

Efficiency

- Energy Efficiency Level VI (ErP / DoE)
- Meet Commission Regulation(EU) 2019/1782
- Meet DOE 10 CFR part 429 and 430

Emissions

- FCC
 - FCC Part18-B
- CE
 - EN(CISPR)55011-B
- VCCI-B
- BS EN55011

Immunity

- EN60601-1-2
 - BS EN60601-1-2
- The above specifications include the following test standards
- ✓ EN61000-4-2
 - ✓ EN61000-4-3
 - ✓ EN61000-4-4
 - ✓ EN61000-4-5
 - ✓ EN61000-4-6
 - ✓ EN61000-4-8
 - ✓ EN61000-4-11

Electrical Spec

| Input | | | | | |
|-------------|------|---------|------|-------|---------|
| Description | Min. | Typ. | Max. | Units | Comment |
| Voltage | 90 | 100~240 | 264 | Vac | |
| Frequency | 47 | 50/60 | 63 | Hz | |

| Environmental | | | | | |
|-----------------------|------|------|------|-------|---------------------------|
| Description | Min. | Typ. | Max. | Units | Comment |
| Operating Temperature | 0 | - | 40 | °C | Free Convection,Sea Level |
| Storage Temperture | -20 | - | 65 | °C | Free Convection,Sea Level |
| Operating Humidity | 5 | - | 95 | %RH | No Condensing |
| Storage Humidity | 5 | - | 95 | %RH | No Condensing |

Typical model list

| Model Name | DC Output Voltage | DC Output Current | Output Voltage Precision | Ripple | Noise | DC Output Peak Current | Peak Time (Tp) | Duty | Average Active Efficiency | No-Load Power Consumption | Option / Remark |
|--------------------|-------------------|-------------------|--------------------------|--------|-------|------------------------|----------------|------|---------------------------|---------------------------|-----------------|
| UMDEx3036-120030PA | 12.0V | 3.0A | ±5% | 240mV | 240mV | 5.1A | 1.2sec | 0.2 | 87.40% | 0.1W | |
| UMDEx3036-150024PA | 15.0V | 2.4A | ±5% | 240mV | 240mV | 4.1A | 1.2sec | 0.2 | 87.40% | 0.1W | |
| UMDEx3036-190019PA | 19.0V | 1.9A | ±5% | 240mV | 240mV | 3.2A | 1.2sec | 0.2 | 87.40% | 0.1W | |
| UMDEx3036-240015PA | 24.0V | 1.5A | ±5% | 240mV | 240mV | 2.5A | 1.2sec | 0.2 | 87.40% | 0.1W | |

■ Measurement Condition

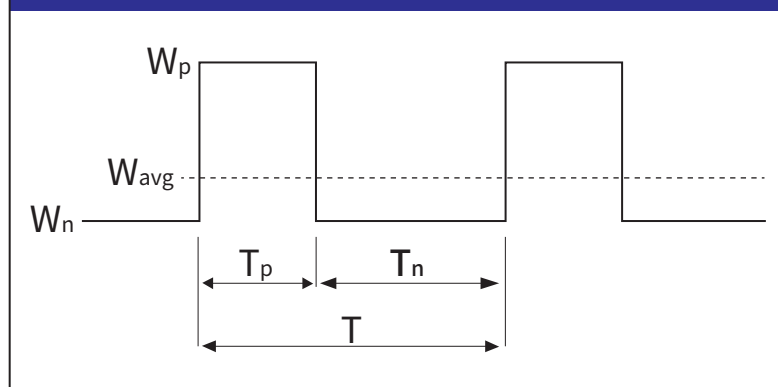
1. Measurements shall be made with an oscilloscope with 20MHz bandwidth.
2. Outputs shall be bypassed at the connector with a 0.1uF ceramic disk capacitor and a 10uF Low ESR electrolytic capacitor to simulate system loading.
3. It is not recommended to exceed the peak load specification value, as it may cause damage to the power supply. If the application range exceeds the calculated value, please contact us.

Peak power

$$■ W_{avg} = \frac{W_p \times T_p + W_n \times (T - T_p)}{T} < 1.1 W_{rated}$$

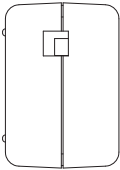
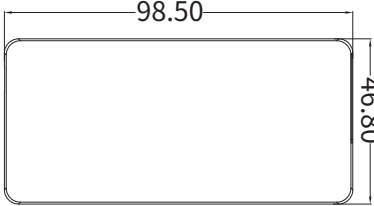
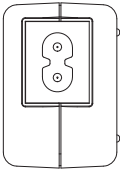
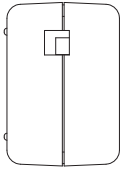
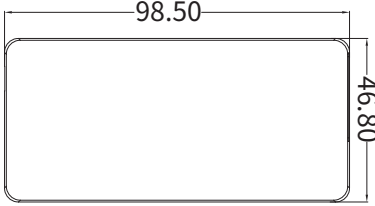
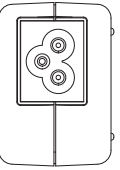
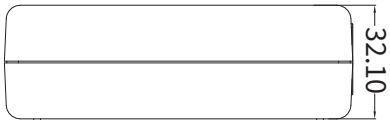
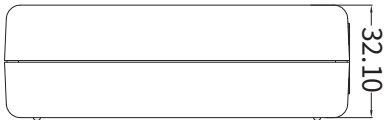
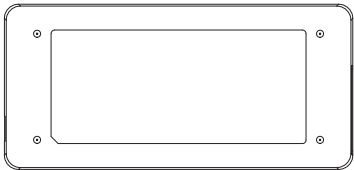
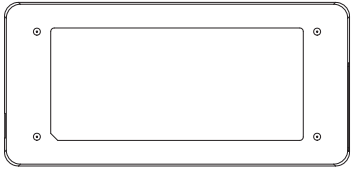
$$■ Duty = \frac{T_p}{T}$$

The Diagram Of Peak Power



- W_{avg} : The average of output (W)
- W_p : The peak output power (W)
- W_n : Off-peak output power (W)
- W_{rated} : Rated output power (W)
- T_p : The time of peak power (sec)
- T_n : Off-peak output power (sec)
- T : Time (sec)

Mechanical Spec

| UMDEI3036 Series | | | | | |
|---|---|---|--|--|---|
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