# UNDE 60W P Series

## I.C.T./AV AC/DC Adaptor
## Peak Power

▲ UNDEI3060-XXXXXXPA

▲ UNDEB3060-XXXXXXPA

▲ UNDEC3060-XXXXXXPA

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

Safety Certificate | Reliability Guarantee | Energy Saving | ROHS 2 | EMC

## Product Highlights

- Stability
- Energy and High Efficiency
- LED Display (Optional)
- Peak load 11 sec function
- The peak load can reach up to 170% of the rated output.
- Suitable for printers/motors/pump/amplifier products

## Protection

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

## Safety Standard

- 62368-1
- 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 Part15-B
- CE
  - EN(CISPR)55032-B
- VCCI-B
- BS EN 55032

## Immunity

- EN55035
- BS EN 55035

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 Temperature | -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 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| UNDEx3060-120050PA | 12.0V | 5.0A | ±5% | 240mV | 480mV | 8.5A | 11sec | 0.2 | 88.00% | 0.21W | |
| UNDEx3060-150040PA | 15.0V | 4.0A | ±5% | 240mV | 480mV | 6.8A | 11sec | 0.2 | 88.00% | 0.21W | |
| UNDEx3060-190031PA | 19.0V | 3.15A | ±5% | 240mV | 480mV | 5.35A | 11sec | 0.2 | 88.00% | 0.21W | |
| UNDEx3060-240025PA | 24.0V | 2.5A | ±5% | 240mV | 480mV | 4.25A | 11sec | 0.2 | 88.00% | 0.21W | |

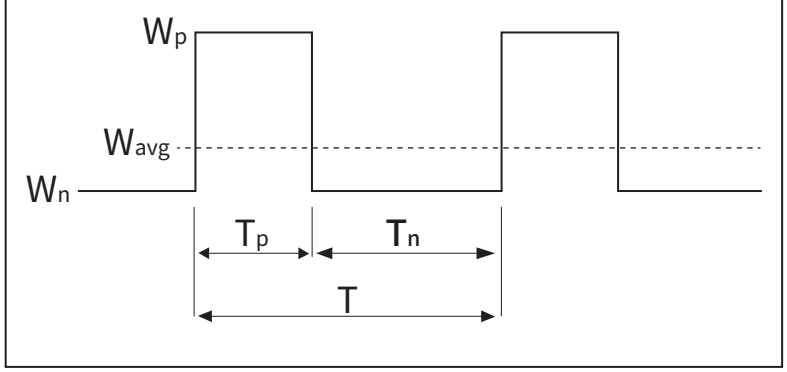
- Measurement Condition

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

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

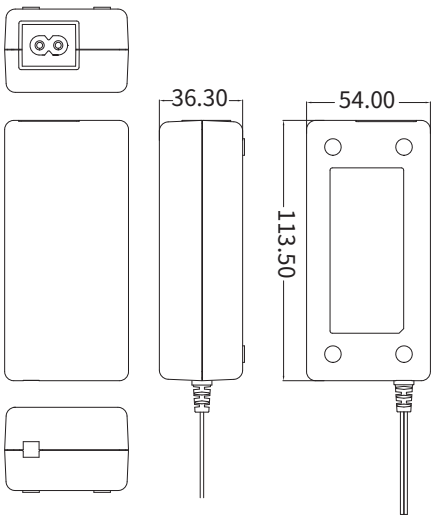
The Diagram Of Peak Power



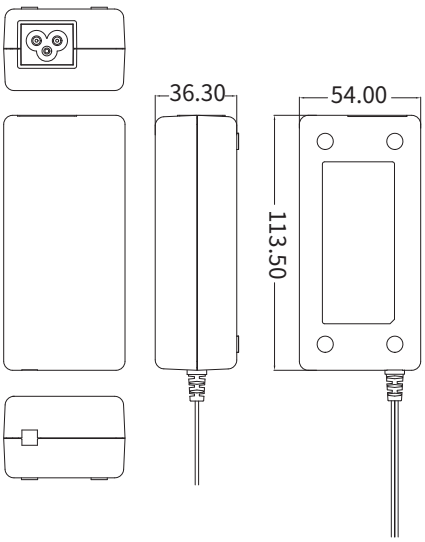

- $W_{avg}$：The average of output (W)
- $W_p$：The peak output power (W)
- $W_n$：Off-peak output power (W)
- $W_{rated}$：Rated output power (W)
- $T_p$：The time of peak power (sec)
- $T_n$：Off-peak output power (sec)
- T：Time (sec)

# Mechanical Spec

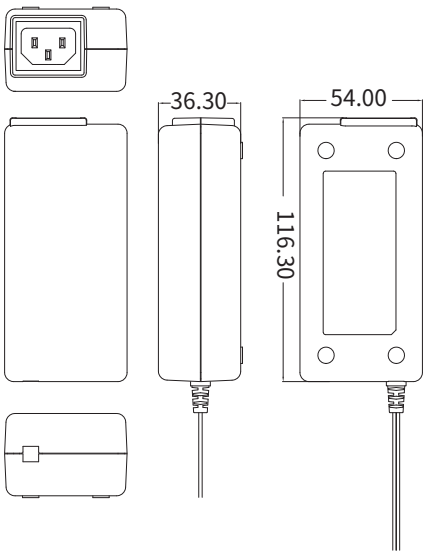
## UNDEI3060 Series



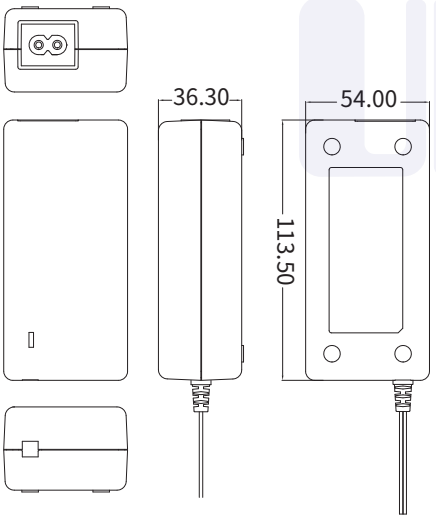

## UNDEB3060 Series




## UNDEC3060 Series




## UNDEI3060/LED Series

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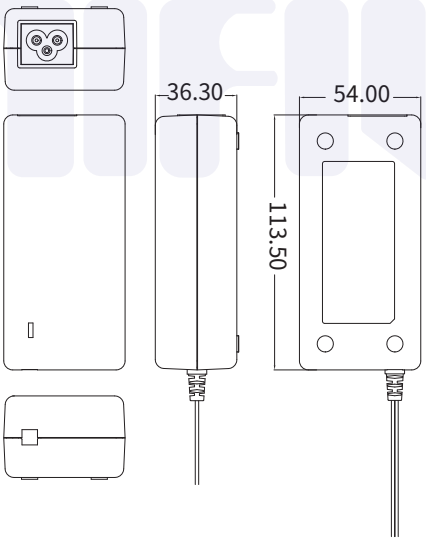
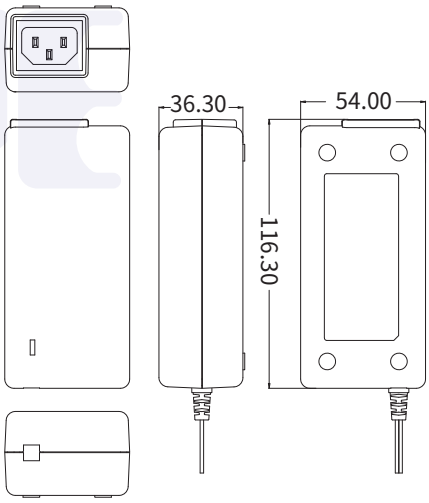



## UNDEC3060/LED Series

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- Please contact our sales department for details of each model