

UMDE 45W P Series

Medical AC/DC Adaptor Peak Power



▲ UMDEI3045-XXXXXXPA



▲ UMDEB3045-XXXXXXPA



▲ UMDEC3045-XXXXXXPA



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



Product Highlights

- Stability
- Energy and High Efficiency
- LED Display (Optional)
- Peak load 11 sec function
- The Peak Load is Twice Rating Current.(Max.)
- 2xMOPP
- Suitable for medical equipment

Protection

- Short Circuit Protection
- Over Voltage Protection
- Over Current Protection
- Over Temperature Protection

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 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
UMDEx3045-120038PA	12.0V	3.8A	±5%	150mV	300mV	6.8A	11sec	0.2	87.74%	0.1W	
UMDEx3045-150030PA	15.0V	3.0A	±5%	240mV	300mV	5.4A	11sec	0.2	87.73%	0.1W	
UMDEx3045-190023PA	19.0V	2.3A	±5%	240mV	300mV	4.2A	11sec	0.2	87.70%	0.1W	
UMDEx3045-240018PA	24.0V	1.8A	±5%	240mV	480mV	3.3A	11sec	0.2	87.69%	0.1W	

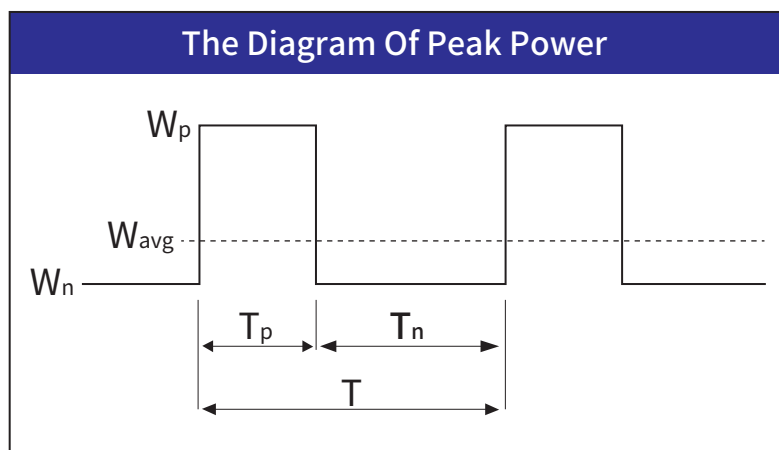
■ Measurement Condition

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

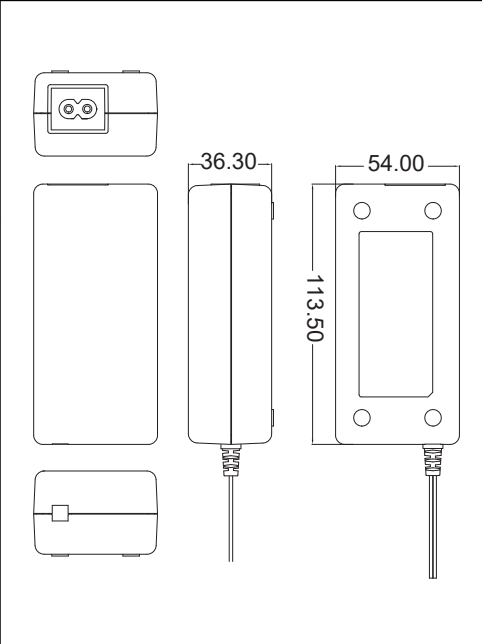
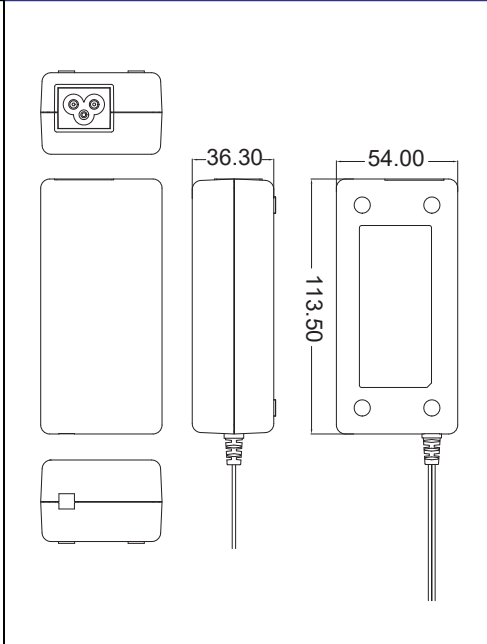
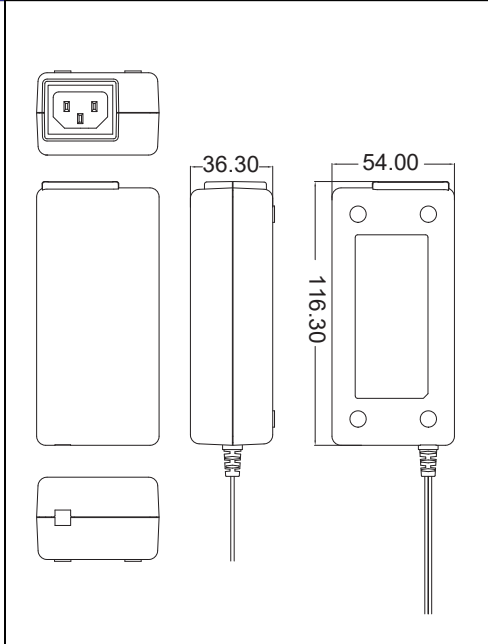
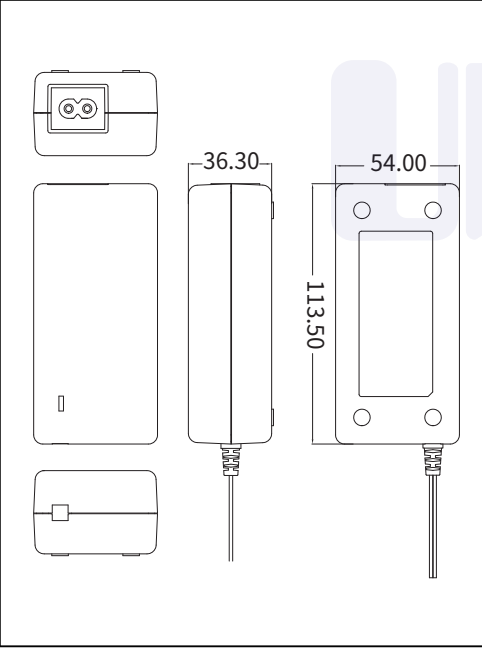
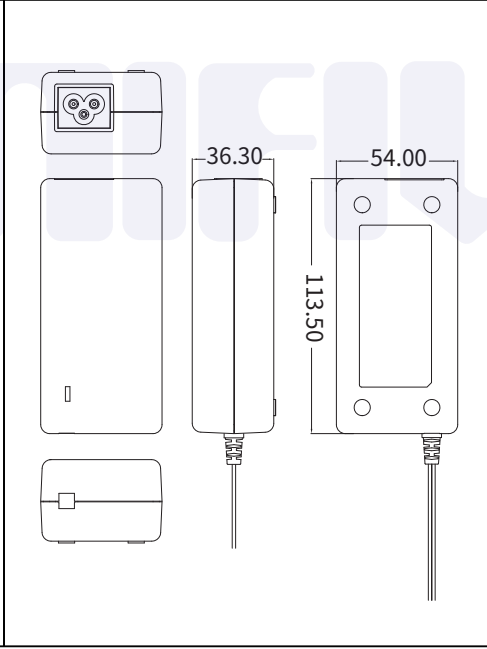
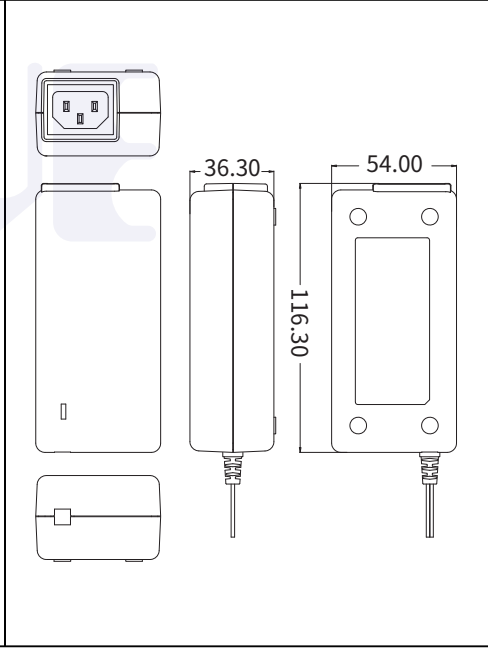
$$■ W_{avg} = \frac{W_p \times T_p + W_n \times (T - T_p)}{T} < W_{rated}$$

$$■ Duty = \frac{T_p}{T}$$



- 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

UMDEI3045 Series	UMDEB3045 Series	UMDEC3045 Series
		
UMDEI3045/LED Series	UMDEB3045/LED Series	UMDEC3045/LED Series
		

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