



**12W Level V I Class II**  
**External AC-DC Power**  
**Adapter — EN62368**



### ◆ Description:

The XJKAW12W Class II 12W external AC-DC power adapter is certified to comply with EN62368-1 and is designed to meet Level VI energy efficiency standards. With double insulation and no requirement for ground connection, it delivers reliable and efficient power conversion with an off-load power consumption of less than 0.15W. This power adapter is well-suited for communication equipment, consumer electronics, and a wide range of industrial applications requiring compact and safe power supplies.

### ◆ Features:

- Certified to EN62368-1 safety standard
- Meets Level VI energy efficiency requirements
- Class II double insulation, no ground needed
- Compact and lightweight design
- Low standby power consumption (<0.15W)
- Protection against over-voltage, over-current, and short circuit
- Wide operating temperature range
- Global regulatory compliance

### ◆ Application

- Consumer electronics & communication devices
- Industrial equipment and automation systems
- Telecommunication and networking products
- IoT and embedded devices
- Office and commercial electronics
- Applications requiring Level VI energy efficiency and EN62368 compliance

### ◆ Model Naming Convention:

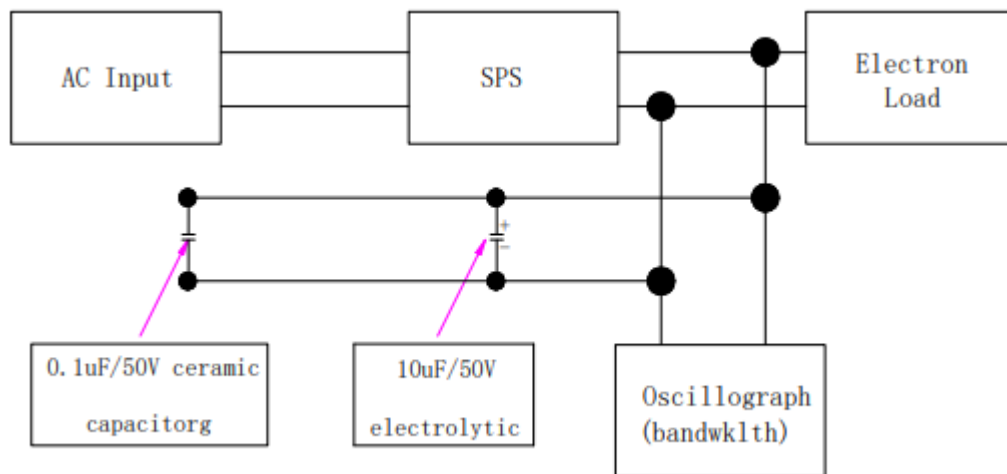
<b>XJK</b>	<b>A</b>	<b>W</b>	<b>6W</b>	<b>120</b>	<b>US</b>	<b>xxx</b>
Our brand	Series :  A=ac adapter  M=Medical power supply.....	Type:  W=Wa  II plug typeD  =Desktop.....	Output power  6W=6w output power 36W=36w output power 45W=45w output power .....	Output Voltage  050=5v output voltage 075=7.5v output voltage 120=12v output voltage .....	Input  US= us plug AU = Au plug C8 = C8 inlet for desktop ac adapter .....	Modified standard designator for alternative connectors, cables etc

## ◆ Specification

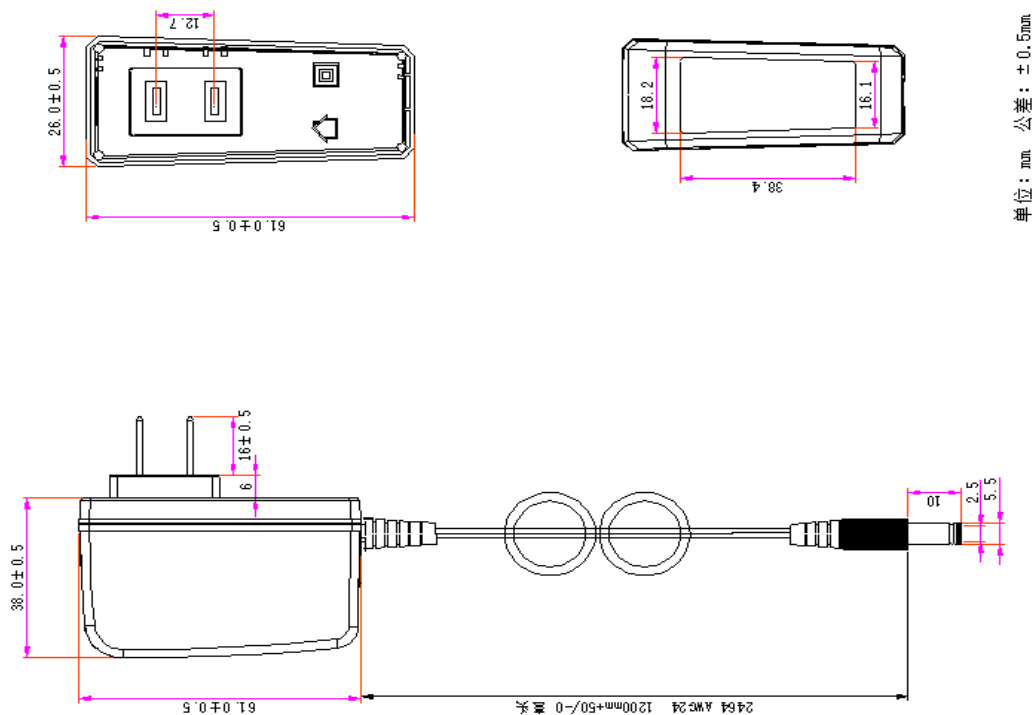
Model		XJKAW12W0 50XX-xxx	XJKWA12W 090XX-xxx	XJKAW12W 075XX-xxx	XJKAW6W0 90XX-xxx	XJKAW6W1 20XX-xxx
Output	Rated Voltage	5V	9V	12V	15V	24V
	Rated Current	2.4 A	1.33A	1.0A	0.8A	0.5A
	Current Range	12W	12W	12W	12W	12W
	Rated Power	0.1-2.4A	0.1-1.33A	0.1-1.0A	0.1-0.8A	0.1-0.5A
	Voltage Accuracy	±2%(at 115/230Vac,60%load and 25°C ambient)				
	Ripple&Noise	130mVp-p	130mVp-p	140mVp-p	150mVp-p	150mVp-p
Input	Voltage Range	80 ~ 264VAC				
	Input Frequency	47 ~ 63Hz				
	Input Current	Max. 0.15A @ 100VAC / Max. 0.10A @ 230VAC				
	No Load Power Consumption	< 0.1W @ 230VAC				
	Efficiency	82%	85%	85%	85%	87%
Protection	Short Circuit Protection	Auto recovery after fault condition is removed				
	Over Current	Yes (optional)				

	Protection	
	Over Voltage Protection	Yes (clamp or latch, optional)
Environment	Operating Temp	-10°C~+50°C
	Storage Temp	-20°C~+85°C
	Operating Humidity	10% ~ 90% RH, non-condensing
	Storage Humidity	5% ~ 95% RH, non-condensing
	Altitude	≤ 2000m
	MTBF	100,000 hours @ 25°C, MIL-HDBK-217F
Safety & EMC	Safety Standards	Complies with IEC/EN/UL 62368-1, GB4943.1 Dielectric Strength: 3000VAC between input and output Note: AC plugs comply with corresponding national safety standards
	DC Insulation Resistance	Input to Output: ≥ 50MΩ (measured at 500VDC) Input to Body Metal: ≥ 50MΩ (measured at 500VDC)
	High-Voltage Test	Input to Output: 3000VAC, 5mA, 3 seconds minimum Input to Body Metal: 1500VAC, 5mA, 3 seconds minimum
	In-rush Current	Maximum 30A cold start at 240VAC input, rated load, 25°C ambient
	EMC Standards	Safety Accord with IEC62368, EN62368, UL62368, GB4943 Note: AC pins corresponding to national standards, such as the CE that corresponds to EN62368; 3000Vac. EMC---EN55032/EN55035/GB9254-1998 (CISPR
Other	Plug/Connector	See page 3~5; Other type available by customer requested
	Cable	See page 3~5; Other type available by customer requested
	Dimension	See page 3; Other type available by customer requested
Note	<ol style="list-style-type: none"> <li>1. All specifications are measured at 230VAC input. 25°C ambient temperature, and full load unless otherwise specified.</li> <li>2. Ripple &amp; noise are measured with 20MHz bandwidth and using a 0.1μF ceramic capacitor and 47μF electrolytic capacitor in parallel across the output.</li> <li>3. Tolerance includes set up tolerance, line regulation, and load regulation.</li> <li>4. Specifications are subject to change without prior notice.</li> </ol>	

## ◆ Test Setup for Measurement

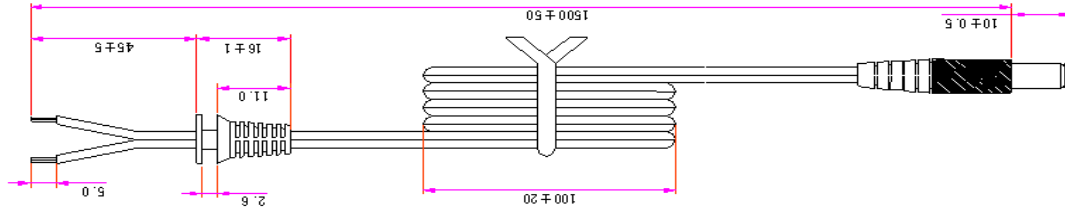


## ◆ Mechanical Specification

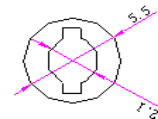
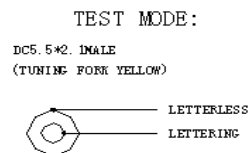


## ◆ DC output wire/connector

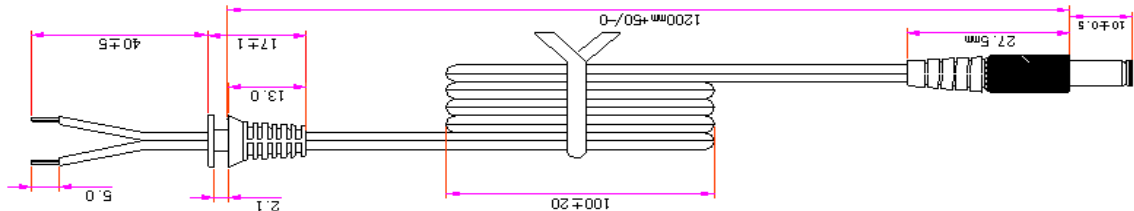
- **Standard DC connector—DC5521**



1. CORD MATERIAL: 2464 AWG24\*2C.
2. DC PLUG TYPE: 5.5\*2.1\*12mm 直头音叉
3. INSULATION: PVC 3.5mm diameter
4. OUT JACKET: PVC. COLOR: Black.
5. TEMPERATURE: 80° C.
6. Unit: mm

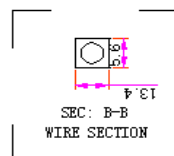
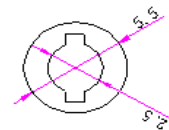
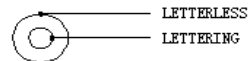


- **Other optinal DC connector—DC5525**

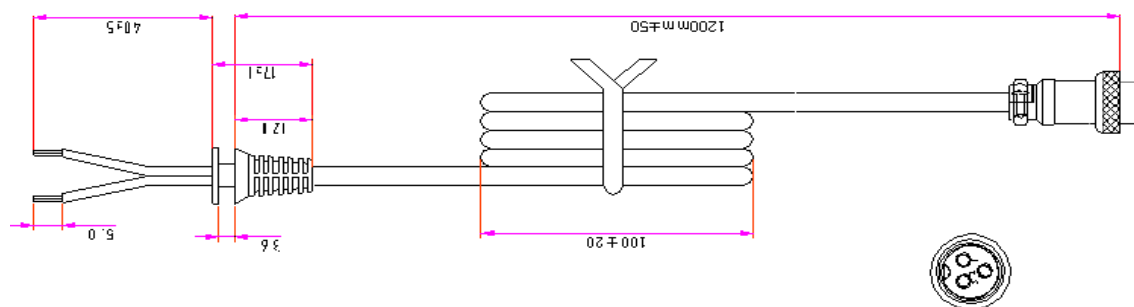


1. CORD MATERIAL: 2464 AWG24\*2C.
2. DC PLUG TYPE: 5.5\*2.5\*10mm 直头音叉
3. INSULATION: PVC 3.5mm diameter
4. OUT JACKET: PVC. COLOR: Black.
5. TEMPERATURE: 80° C.
6. Unit: mm

TEST MODE:  
DC5.5\*2.5MALE  
(TUNING FORK BLACK)

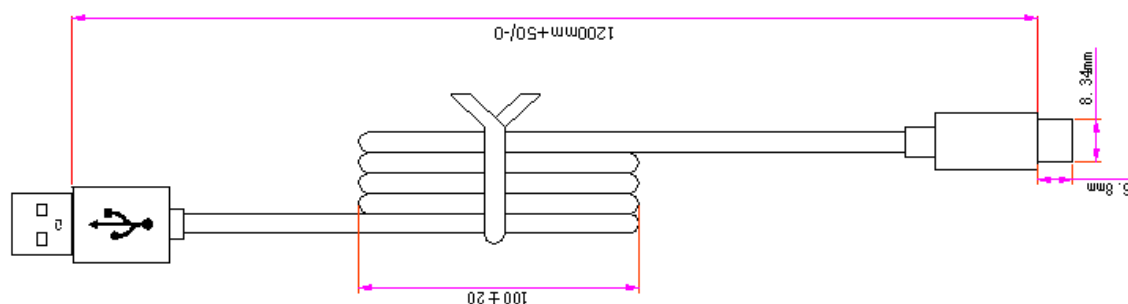


- **Other optinal DC connector—AERO**



1. CORD MATERIAL:2464 AWG18\*2C.
2. DC PLUG TPYE:GX16-3P航空头, 1脚正极, 2脚负极, 3接地.
3. INSULATION:PVC 4. 5mm diameter
4. OUT JACKET:PVC.COLOR:Black.
5. TEMPERATURE:80° C.
6. Unit:mm

- Other Optional DC connector—Type C



1. CORD MATERIAL:2464 AWG22\*2C.
2. DC PLUG TPYE:TPYE-C 直头
3. INSULATION:PVC 3.8mm diameter
4. OUT JACKET:PVC.COLOR:Black.
5. TEMPERATURE:80° C.
6. Unit:mm

- More options available.....