6W Level V I Class II External AC-DC Power Adapter — EN62368

◆ Description:

The XJKAW6W Class II 6W 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.

◆Featues:

- 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:

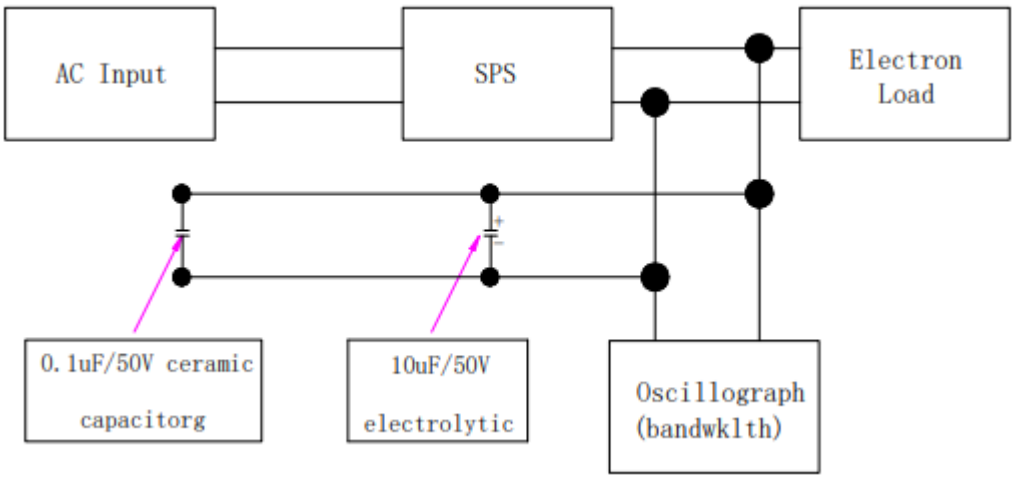
XJK	A	W	6W	120	US	xxx
Ourbrand	Series: A=ac adapter M=Medical power supply.....	Type: W=Wall plug typeD =Desktop.....	Output power 6W=6w output power 36W=36w output power 45W=45w output power	Output Voltage 050=5v output voltage 075=7.5v output voltage 120=12v output voltage	Input US= us plug AU = Au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

◆ Specification

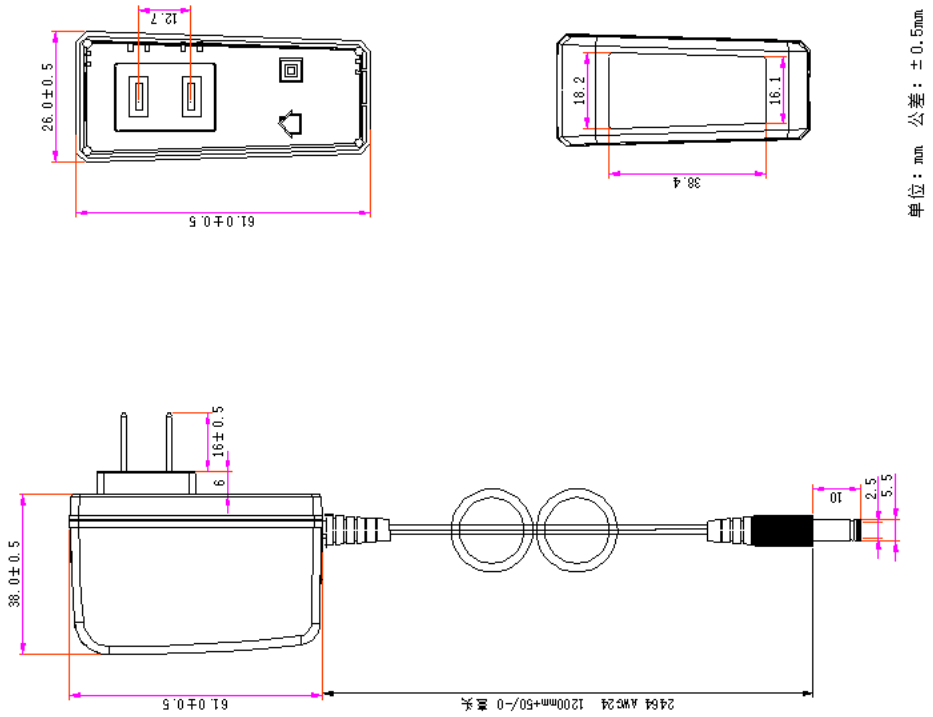
Model		XJKAW6W050XX-xxx	XJKA6WW060XX-xxx	XJKAW6W075XX-xxx	XJKAW6W090XX-xxx	XJKAW6W120XX-xxx
Output	Rated Voltage	5V	6V	7.5V	9V	12V
	Rated Current	1A	1A	0.8A	0.66A	0.5A
	Current Range	5W	6W	6W	5.94W	6W
	Rated Power	0.1-1A	0.1-1A	0.1-0.8A	0.1-0.66A	0.1-0.5A
	Voltage Accuracy	±2%(at 115/230Vac,60%load and 25°C ambient)				
	Ripple&Noise	80~120mVp-p	90~130mVp-p	100~140mVp-p	100~150mVp-p	120~180mVp-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%	84%	85%	86%	87%
Protection	Short Circuit Protection	Auto recovery after fault condition is removed				
	Over Current Protection	Yes (optional)				
	Over Voltage Protection	Yes (clamp or latch, optional)				
Environment	Operating Temp	-10℃~+50℃				
	Storage Temp	-20℃~+85℃				
	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/Conntor	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	1. All specifications are measured at 230VAC input. 25°C ambient temperature, and full load unless otherwise specified. 2. Ripple & noise are measured with 20MHz bandwidth and using a 0.1μF ceramic capacitor and 47μF electrolytic capacitor in parallel across the output. 3. Tolerance includes set up tolerance, line regulation, and load regulation. 4. Specifications are subject to change without prior notice.					

◆ Test Setup for Measurement

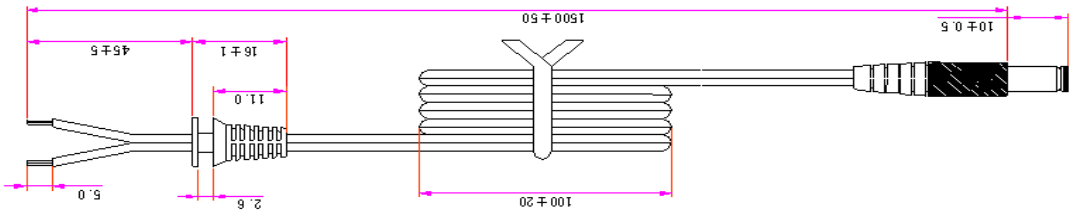


◆ Mechanical Specification

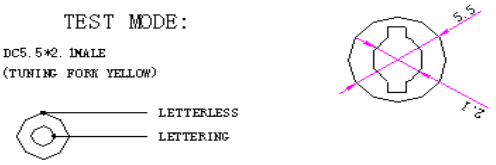


◆ DC output wire/connector

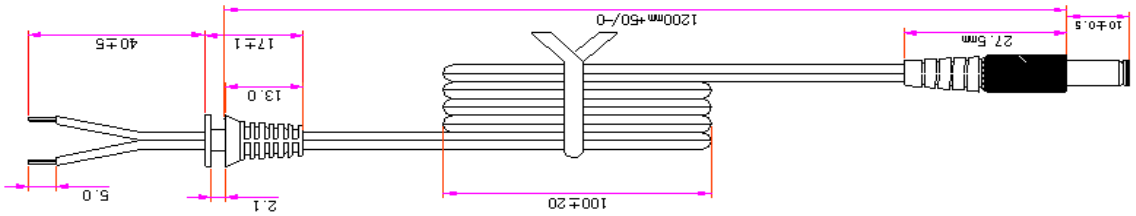
- Standard DC connector—DC5521



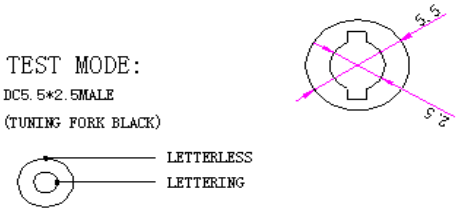
1. CORD MATERIAL:2464 AWG24*2C.
2. DC PLUG TPYE:5.5*2.1*12mm 直头音叉
3. INSULATION:PVC 3.5mdiameter
4. OUT JACKET:PVC. COLOR:Black.
5. TEMPERATURE:80° C.
6. Unit:mm

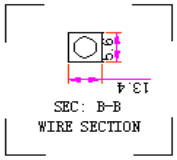


- **Other optinal DC connector—DC5525**

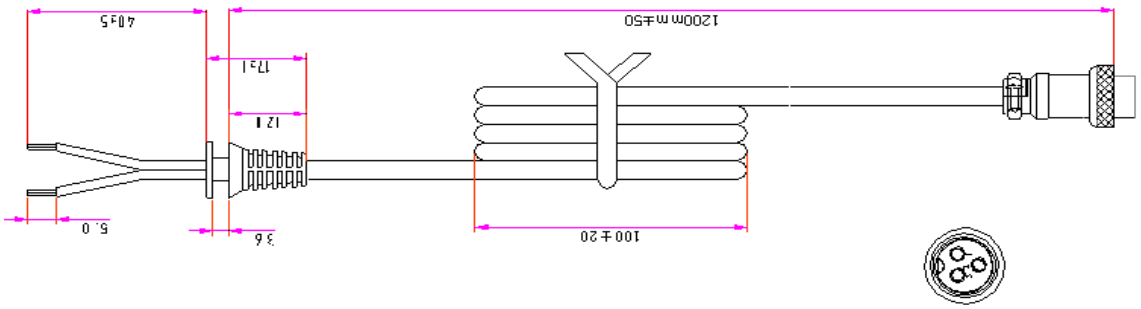


1. CORD MATERIAL:2464 AWG24*2C.
2. DC PLUG TPYE:5.5*2.5*10mm 直头音叉
3. INSULATION:PVC 3.5mm diameter
4. OUT JACKET:PVC. COLOR:Black.
5. TEMPERATURE:80° C.
6. Unit:mm



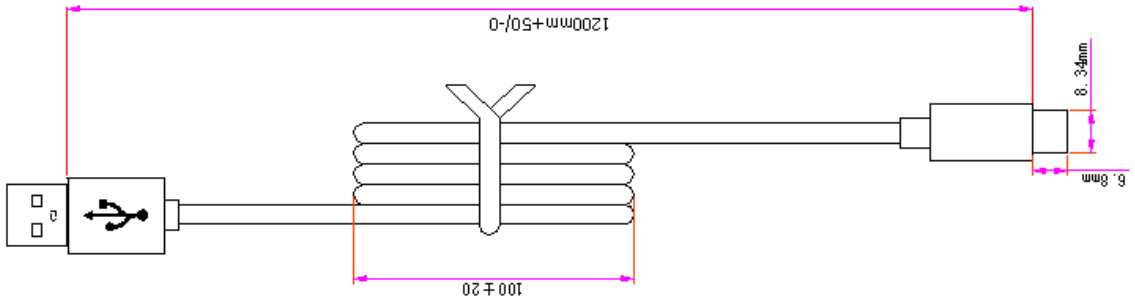


- **Other optinal DC connector—AERO**



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.....**