120W Level VI Class II External AC-DC Power Adapter — EN62368

◆ Description:

The XJKAD90W Class II 90W 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:

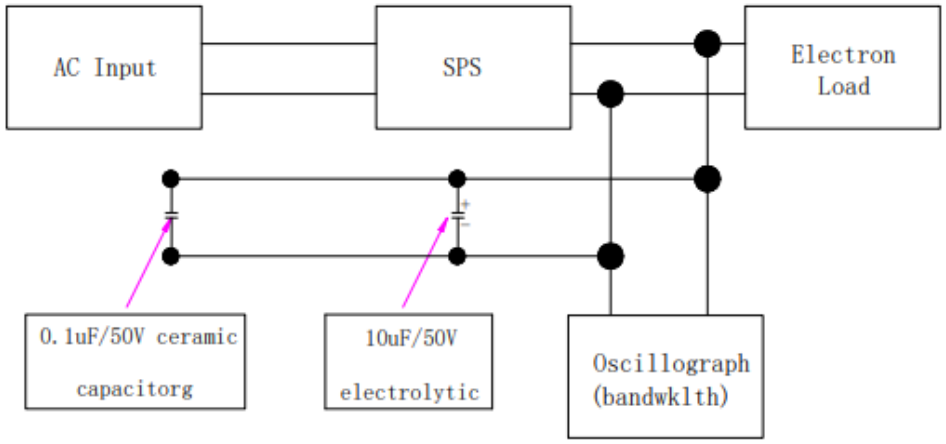
XJK	A	D	120W	120	C8	xxx
Our brand	Series: A=ac adapter M=Medical power supply.....	Type: W=Wall plug typeD= Desktop	Output power 45W=45w output power 120W=120w output power **.....**	Output Voltage 075=7.5v output voltage 120=12v output voltage **.....**	Input US= us plug AU = Au plug C8 = C8 inlet for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

◆ Specification

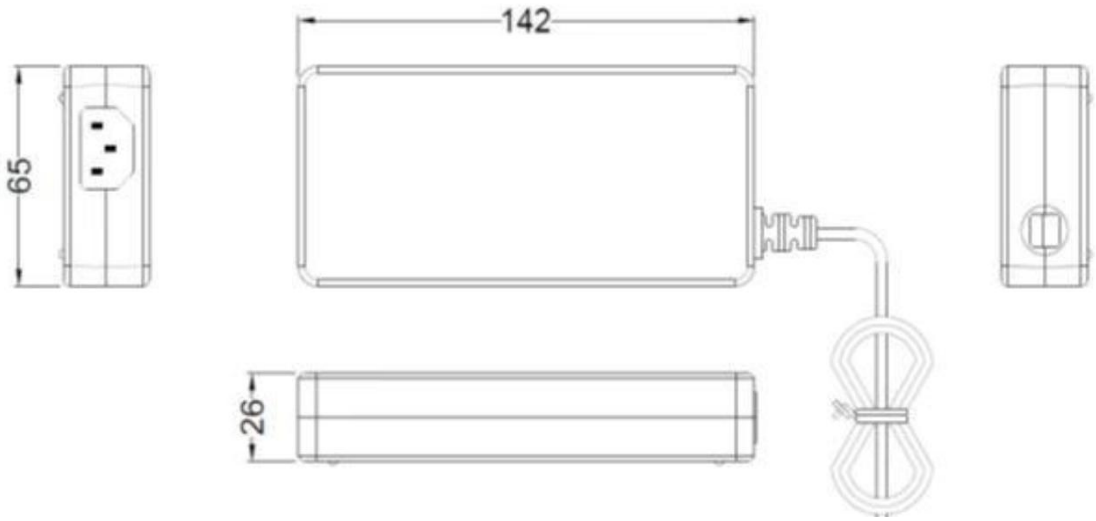
Model		XJKAD120W120XX-xxx	XJKAD120W150XX-xxx	XJKAD120W190XX-xxx	XJKAD120W240XX-xxx	XJKAD120W480XX-xxx
Output	Rated Voltage	12V	15V	19V	24V	48V
	Rated Current	10.0A	8.0A	6.32A	5.0A	2.5A
	Rated Power	120W	120W	120W	120W	120W
	Current Range	0.1-10.0A	0.1-3.0A	0.1-6.32A	0.1-5.0A	0.1-2.5A
	Voltage Accuracy	±2%(at 115/230Vac,60%load and 25°C ambient)				
	Ripple&Noise	200mVp-p	200mVp-p	220mVp-p	250mVp-p	250mVp-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	88%	89%	90%	91%	91%
Protection	Short Circuit Protection	Auto recovery after fault condition is removed				
	Over Current Protection	Yes (optional)				
	Over Voltage Protection	Yes (clamp or latch, optional)				
Enviro	Operating	-10℃~+50℃				

nment	Temp	
	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 4~5; Other type available by customer requested
	Cable	See page 4~5; 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

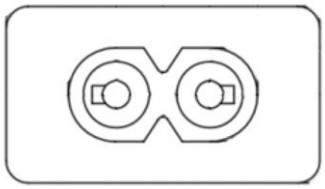


◆ Mechanical Specification

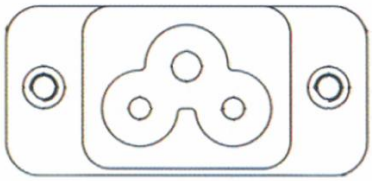


◆ Inlet connector

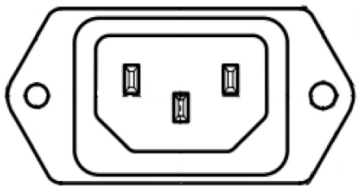
- **IEC C8 Inlet**



- **IEC C6 Inlet**



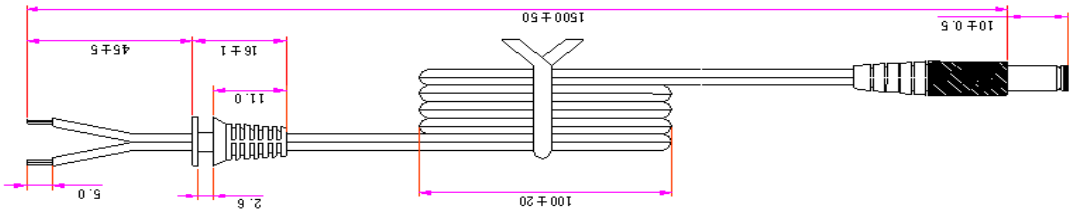
- IEC C14 Inlet



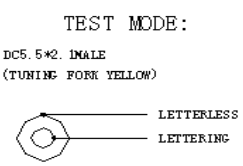
- IEC C18 Inlet
- IEC C20 Inlet

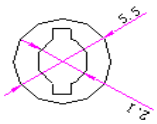
◆ DC output wire/connector

- Standard DC connector—DC5521

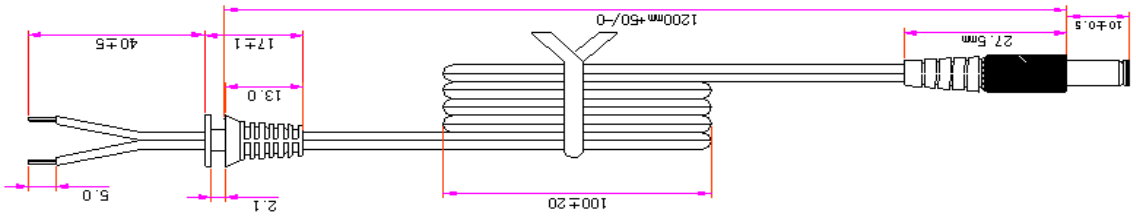


1. CORD MATERIAL:2464 AWG24*2C.
2. DC PLUG TPYE:5.5*2.1*12mm 直头音叉
3. INSULATION:PVC 3.5mdiameter
4. OUT JACKET:PVC. COLOR:Black.
5. TEMPERATURE:80° C.
6. Unit:mm



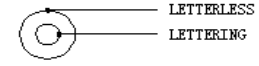


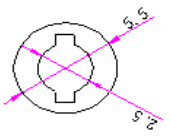
- Other optinal DC connector—DC5525

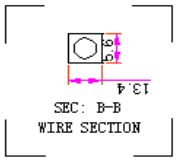


1. CORD MATERIAL:2464 AWG24*2C.
2. DC PLUG TPYE:5.5*2.5*10mm 直头音叉
3. INSULATION:PVC 3.5mm diameter
4. OUT JACKET:PVC. COLOR:Black.
5. TEMPERATURE:80° C.
6. Unit:mm

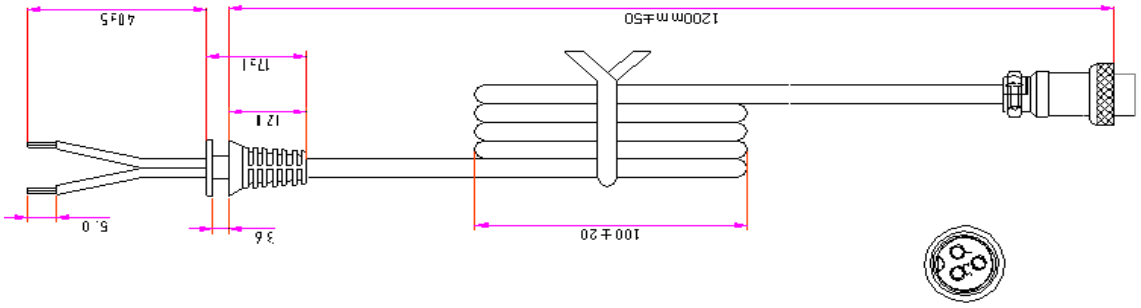
TEST MODE:
DC5.5*2.5MALE
(TUNING FORK BLACK)





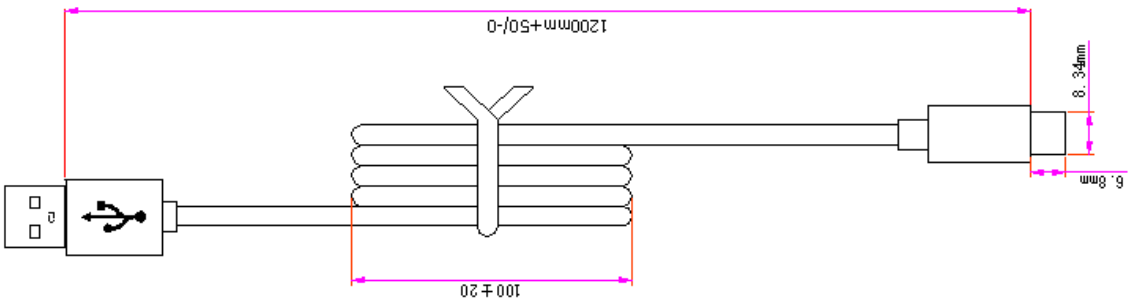


- **Other optinal DC connector—AERO**



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.....**