

**JASPER  
ELECTRONICS**

*Innovative Specialty  
DC Power Systems*



## CONTACT

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# JE1 Series

**18 Watts, Efficiency Level VI**

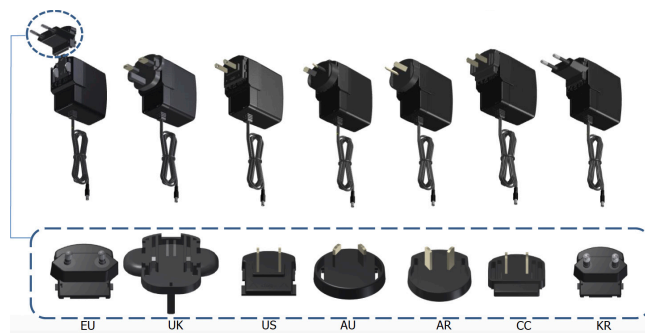


## GENERAL OVERVIEW

Jasper's External Power Supplies are available from 5W-150W, with single and multiple outputs. Fixed and detachable I/O cords are available, as are Standard and Custom configuration models. Please feel free to contact us for any further information about your application so we can offer a solution!

## FEATURES INCLUDE:

- Energy efficiency compliance with DOE 2016 Level VI and European 2009/125/EC Year 2018
- No load power consumption less than 0.075W
- Switching Wall Mount Power Supply
- Class II without earth pin
- Universal AC Input suitable for different countries
- Overload and short circuit protection
- Constant voltage
- Output Voltage from 5V to 24V available
- Available in interchangeable and fixed AC plugs



ISO9001:2015

Rev A-February-22-2023

INPUT SPECIFICATIONS	
Input Voltage	90 - 264VAC (wide range for different countries)
Input Frequency	47-63Hz
Input Current	0.5A (Rated)
No Load Input Power	0.075W max.
Inrush Current	40A Max
OUTPUT SPECIFICATIONS	
Voltage	5; 6; 9; 12; 15; 18; 24 V
Voltage Regulation	±5%
Power	18W max.
Hold-Up Time	10ms
Over Voltage Protection	@135% of rated output voltage
Short Circuit Protection	Auto recovery
Over Load Protection	@130% above maximum rating
Output Cable / Connector	As selction guide; other type as per customer's request
ENVIRONMENTAL SPECIFICATIONS	
Operating Temperature	0°C-45°C (Ambient Temperature)
Storage Temperature	-40°C to +85°C
Humidity	5-95% Rh, noncondensing
Operation Altitude	5000M for fixed Plug; 3000M for interchangeable plug
Electromagnetic Susceptibility	Designed to meet EN55024
Shock	Able to survive 1M drop onto concrete on each 6 axes
Vibration	10-300Hz 2g 15 mins./sweep, 30 mins for each of 3 axes
AC PLUG CONFIGURATION FOR FIXED PLUG	
Europe 2 Prong	EU
United Kingdom 2 Prong	UK
U.S. 2 Prong	US
China 2 Prong	CC
Korea 2 Prong	KR
AC PLUG CONFIGURATION FOR INTERCHANGEABLE	
Europe 2 Prong	UV-EU
United Kingdom 2 Prong	UV-UK
U.S. 2 Prong	UV-US
Australia / New Zealand	UV-AU
China 2 Prong	UV-CC
Korea 2 Prong	UV-KR
Argentina 2 Prong	UV-AR
SAFETY	
TUV	EN60950-1
NRTL	UL60950-1; cUL60950-1
SAA	AS/NZS 60950-1
CB	IEC60950-1
CE	CE, EMC, LVD, ErP for EU and UK versions

\*Specifications subject to change without notice.

ORDERING INFORMATION						
Model Number	Maximum Power (W)	Output Voltage (V)	Minimum Load (A)	Maximum Load (A)	Regulation	Ripple & Noise (mVp-p)
JE1A-005yyyyZZ	15	5	0	3	±5%	65
JE1A-006yyyyZZ	18	6	0	3	±5%	65
JE1A-009yyyyZZ	18	9	0	2	±5%	90
JE1A-012yyyyZZ	18	12	0	1.5	±5%	120
JE1A-015yyyyZZ	18	15	0	1.2	±5%	150
JE1A-018yyyyZZ	18	18	0	1	±5%	180
JE1A-024yyyyZZ	18	24	0	0.75	±5%	240

**Notes:**

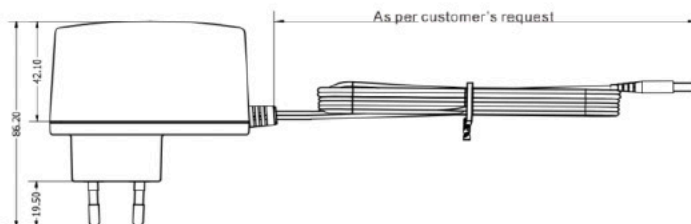
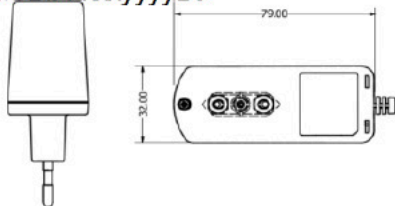
*\*Specifications subject to change without notice.*

1. yyyy denote output current.
2. ZZ denote the type of AC plug.
3. Cable length default at 1.5M , for length over 1.5M may affect the efficiency energy.
4. All dimensions in mm, tolerance is±0.5.
5. Peak to peak with 20MHz bandwidth and 47μF in parallel with 0.1μF capacitor at rated line voltage and load ranges.
6. Specifications subject to change without notice.

## MECHANICAL DRAWINGS

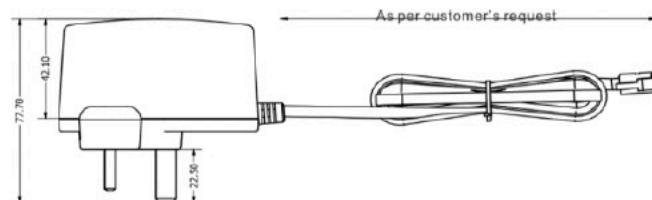
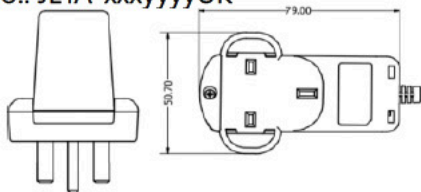
### Fixed EU

Model No.: JE1A-xxxxyyyEU



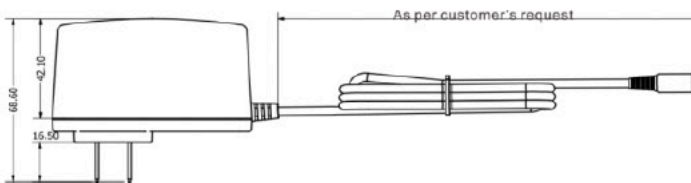
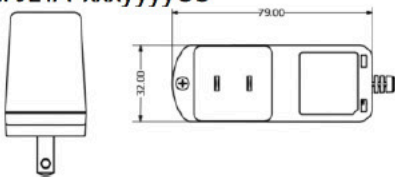
### Fixed UK

Model No.: JE1A-xxxxyyyUK



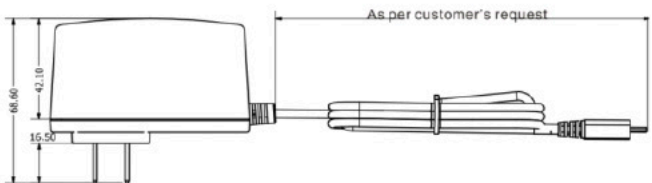
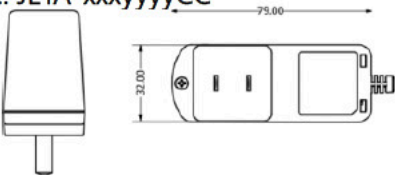
### Fixed US

Model No.: JE1A-xxxxyyyUS



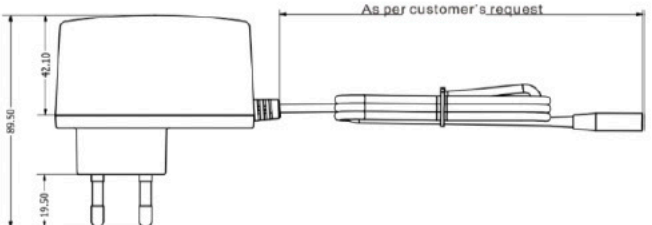
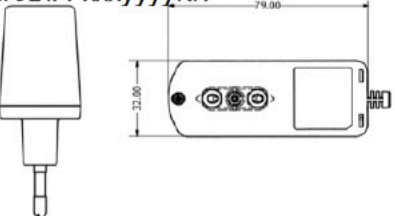
### Fixed CC

Model No.: JE1A-xxxxyyyCC



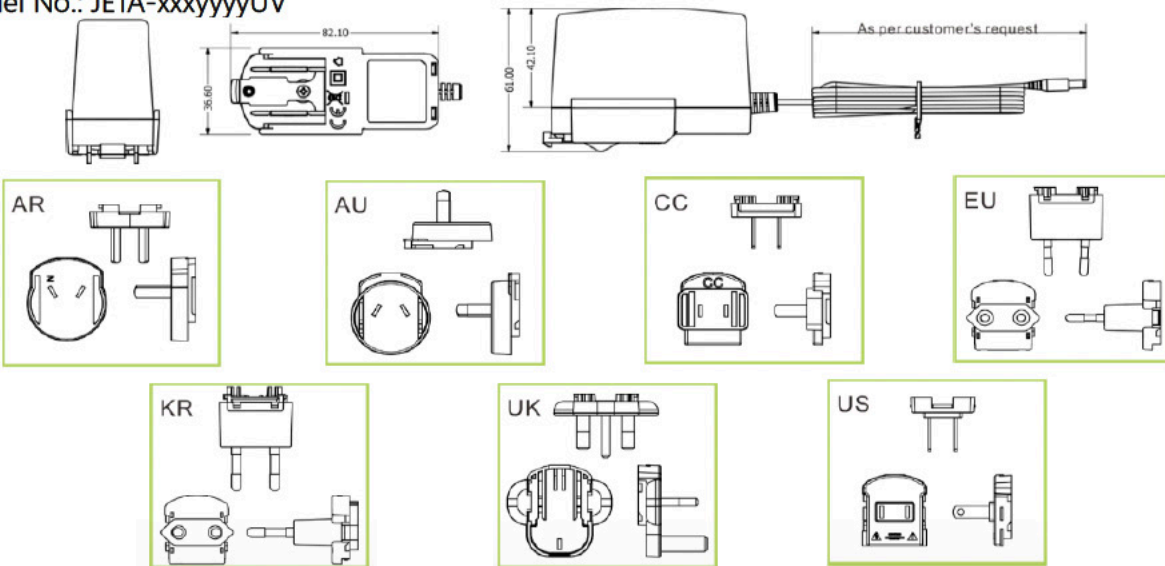
### Fixed KR

Model No.: JE1A-xxxxyyyKR



## MECHANICAL DRAWINGS (CONTINUED)

Interchangeable  
Model No.: JE1A-xxxxyyUV



# INNOVATIVE SPECIALTY DC POWER SYSTEMS

*Standard and Custom Power Supplies from 5W to 10KW*

## TRAFFIC CONTROL POWER SUPPLIES



- 70-400+ Watts / 120 and 220 VAC Models Available
- CALTRANS TEES, NYSDOT, CDOT, GDOT Compliant for 332, 334, 336, 342, 344, and 346 Series cabinets
- RoHS and NEMA Compliant
- Custom labeling and barcoding available
- Ruggedization against shock / vibration / humidity available

## CUSTOM POWER DISTRIBUTION ASSEMBLIES (PDAs)



- Compliant with TEES 2020
- 1U smaller than the PDA2-LX and PDA3-LX
- User accessible slots as specified
- Custom labeling and barcoding available
- Ruggedization against shock / vibration / humidity available

## COMPACT PCI



- AC or DC input, 175W - 500W DC output, active PFC
- 3U x 8HP, 6U x 8HP sizes
- PICMG 2.11 compliant, UL/CSA, NEMKO/TUV/CE certified, ROHS compliant
- Ruggedization against shock/ vibration/ humidity optional

**Primary Applications: Industrial Computing, Military, Satellite Comm, Test, Transportation, Telecom, Aerospace**

## SPECIALTY HOT-SWAPPABLE POWER SUPPLIES



- 200-1500W, Universal Input, 5-54VDC Output
- Hot Swap. N+1, 90+% Efficiency
- 1U Form Factors
- 30+ Variations for Various Applications Including Nuclear
- Ruggedization against shock/ vibration/ humidity optional

**Primary Applications: Medical Equipment, Military, Test, Automotive, Computing, Audio, Sensitive Electronics**

## RACK POWER SYSTEMS



- 200W-1500W, 2-8 slots, single or mixed output voltages, up to 10KW total
- Single, dual, or individual unit AC or DC input
- Internally or externally redundant DC outputs
- Standard 19" and 23" size or user-specified configurations also available
- Ruggedization against shock/ vibration/ humidity optional

**Primary Applications: Medical Equipment, Military, Test, Automotive, Computing, Audio, Sensitive Electronics**

## CUSTOMS & MODIFIED STANDARDS



- 75W-2KW
- Single to 7 outputs
- Designed and built to custom or semi-custom specifications
- Ruggedization against shock/ vibration/ humidity optional
- Custom electrical specs, chassis, paint, labeling, connectors, interface all available

**Primary Applications: Medical Equipment, Military, Test, Automotive, Computing, Audio, Sensitive Electronics**

## LOW NOISE CONVECTION / CONDUCTION COOLED POWER SUPPLIES



- 200W-500W, 90—264VAC full range input with 12-54 VDC Output
- Wide operating temperature range / high efficiency
- Small form factors
- Ruggedization against shock/ vibration/ humidity optional

**Primary Applications: Medical Equipment, Military, IT, Sensitive Electronics**

## MEDICAL ADAPTERS



- 6W-250W, Efficiency levels V & VI
- Desktop, Wall-mount, and Interchangeable AC plug types
- Large selection of output connectors – additional cable lengths available
- UL60601 (medical) approved adapters available
- Ruggedization against shock/ vibration/ humidity optional

