

8W



The JSE08 series is housed in a DIP24 metal case. Featuring a 4:1 input voltage range of 9 to 36VDC or 18 to 75VDC with both single and dual outputs, singles have 3.3, 5, 12 or 15VDC with duals having ± 5 , ± 12 or ± 15 VDC. Single output models are adjustable ± 10 0% with a trim resistor.

The JSE08 provides 1.6kVDC isolation between input and output. Remote on/off is standard. Operating temperature range is from -40°C to +85°C, with full power to +60°C.



Features

- ► Regulated single & dual outputs
- ▶ 2:1 input range
- ► Single outputs 3.3 to 24VDC
- ▶ Dual outputs ±12 & ±15VDC
- ▶ DIP16 metal case
- ▶ 1.5kVDC isolation
- ► Remote On/Off
- ▶ -40°C to +105°C operating temperature
- ► Full power to +70°C
- ▶ 3 year warranty

Applications



Autonomous

equipment





Industrial Tech









Robotics

Dimensions

23.8 x 13.7 x 8.0mm (0.94" x 0.54" x 0.31")

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Models & ratings

Model number	Input voltage	Output voltage	Output current	Efficiency	Input c	Maximum	
14loaci Hallibei	input voitage	Output voitage	Output current	Linciency	No load	Full load	capacitive load ⁽²⁾
JSE0812S3V3		3.3VDC	1600mA	78%		565mA	680µF
JSE0812S05		5VDC	1600mA	81%		825mA	680µF
JSE0812S12		12VDC	665mA	84%		790mA	330µF
JSE0812S15	9-18VDC	15VDC	535mA	84%	10mA	795mA	330µF
JSE0812S24		24VDC	335mA	85%		790mA	150µF
JSE0812D12		±12VDC	±335mA	85%]	790mA	±150µF
JSE0812D15	1	±15VDC	±265mA	84%	1	790mA	±150µF

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Notes:

1. Input currents measured at nominal input voltage.

2. Maximum capacitive load is per output.

JSE08 series



Models & ratings

Model number	Input voltage	Output voltage	Output current	Efficiency	Input c	urrent ⁽¹⁾	Maximum
Model Hulliber	iliput voltage	Output voitage	Output current	Output current Emclency	No load	Full load	capacitive load(2)
JSE0824S3V3		3.3VDC	1600mA	78%		280mA	680µF
JSE0824S05		5VDC	1600mA	82%		405mA	680μF
JSE0824S12		12VDC	665mA	85%		390mA	330µF
JSE0824S15	18-36VDC	15VDC	535mA	85%	10mA	395mA	330µF
JSE0824S24		24VDC	335mA	86%		390mA	150µF
JSE0824D12		±12VDC	±335mA	85%		395mA	±150µF
JSE0824D15		±15VDC	±265mA	86%		385mA	±150μF
JSE0848S3V3		3.3VDC	1600mA	78%		140mA	680µF
JSE0848S05		5VDC	1600mA	81%		205mA	680μF
JSE0848S12		12VDC	665mA	85%		195mA	330µF
JSE0848S15	36-75VDC	15VDC	535mA	85%	8mA	195mA	330µF
JSE0848S24		24VDC	335mA	86%		195mA	150μF
JSE0848D12		±12VDC	±335mA	86%		195mA	±150μF
JSE0848D15		±15VDC	±265mA	86%		195mA	±150μF

Notes:

1. Input currents measured at nominal input voltage.

2. Maximum capacitive load is per output.

Input

Characteristic	Minimum	Typical	Maximum	Units	Notes & conditions	
	9		18		12V nominal	
Input voltage range	18		36	VDC	24V nominal	
	36		75		48V nominal	
Input filter	Internal PI ty	Internal PI type				
		>9 / >8			On / Off (12V models)	
Undervoltage lockout		>18 / <16		V	24V models	
		>36 / <34			48V models	
		25			12V models (for 1s)	
Input surge		50		VDC	24V models (for 1s)	
		100			48V models (for 1s)	

Output

Characteristic	Minimum	Typical	Maximum	Units	Notes & conditions
Output voltage	3.3		30	VDC	See models and ratings table
Initial set accuracy			±2.0	%	At full load
Output voltage balance		±1.0	±2.0	%	For dual output with balanced laods
Minimum load				Α	No minimum load required
Line regulation		±0.2	±0.8	%	From minimum to maximum input at full load
Load regulation		±0.5	±1.0	%	From 0 to full load
Cross regulation			±5.0	%	On dual output models when one load is varied between 25% and 100% and other is fixed at 100%
Transient response		3	5	% deviation	Recovery within 1% in less than 250µs for a 25% load change.
Ripple & noise			55	mV pk-pk	20MHz bandwidth. Measured using 0.47µF ceramic capacitor.
Overload protection			150	%	
Short circuit protection					Continuous trip & restart (hiccup mode), with auto recovery
Maximum capacitive load					See models and ratings table
Temperature coefficient			0.02	%/°C	



JSE08 series



General

Characteristic	Minimum	Typical	Maximum	Units	Notes & conditions	
Efficiency		85		%	See models and ratings table	
Isolation: input to output	1500/1800			VDC	60s/1s Functional	
Isolation resistance	10 ⁹			Ω	At 500 VDC	
Isolation capacitance		500		pF		
Switching frequency		370		kHz		
Power density			3.1 (50.8)	W/cm³ (W/in³)		
Mean time between failure		1		Mhrs	MIL-HDBK-217F, +25°C GB	
Weight		6.1 (0.013)		g (lb)		
Pin material	Tinned Copper					
Lead free solder process	260°C max	260°C max lead temperature 1.5mm from case for 10s				
Case flammability	UL 94V-0 Ra	ted				

Environmental

Characteristic	Minimum	Typical	Maximum	Units	Notes & conditions
Operating temperature	-40		+105	°C	See derating curve
Storage temperature	-50		+125	°C	
Case temperature			+105	°C	
Humidity			95	%RH	Non-condensing
Cooling	Natural conv	ection			

Safety approvals

Safety agency	Standard	Notes & conditions
UL	UL/cUL60950-1, UL/cUL62368-1	Information technology
CE	Meets all applicable directives	
UKCA	Meets all applicable legislation	

Emissions - EMC

Phenomenon	Standard	Test level	Notes & conditions
Conducted	EN55032	Class A	No filter required

Immunity - EMC

Phenomenon	Standard	Test level	Criteria	Notes & conditions
ESD immunity	EN61000-4-2	±8 kV air discharge, ±6 kV contact	А	
Radiated immunity	EN61000-4-3	10 V/m	Α	
EFT/Burst	EN61000-4-4	±2 kV	Α	With external capacitor, suggested part is CHEMI-CON KY 330μF/100V
Surge	EN61000-4-5	±1 kV	Α	With external capacitor, suggested part is CHEMI-CON KY 330μF/100V
Conducted immunity	EN61000-4-6	10 V rms	А	

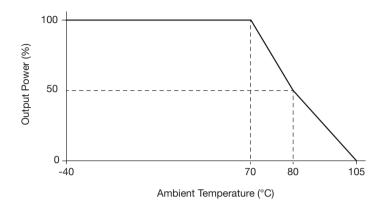


JSE08 series

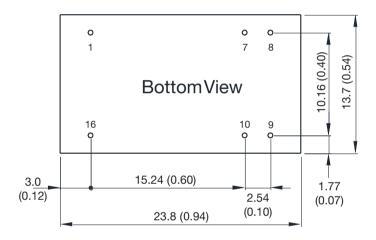


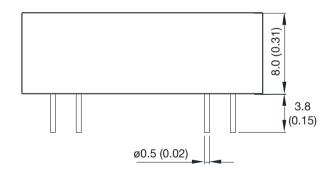
Application notes

Derating curve



Mechanical details





	Pin connections					
Pin	Single	Dual				
1	-Vin	-Vin				
7	No Connection	No Connection				
8	No Connection	Common				
9	+Vout	+Vout				
10	-Vout	-Vout				
16	+Vin	+Vin				

Notes:

- 1. All dimensions: mm (inches)
- 2. Weight: 6.1g (0.013lb) approx.

- 3. Tolerance: X.X±0.25 (X.XX±0.01), X.XX±0.13 (X.XXX±0.005)
- 4. Pin Tolerance: ±0.05 (±0.002)