

# JR72 Series



## Features :

- 2:1 & 4:1, 9V ~ 75V Input Range
- Thermal Shutdown
- Soft Start
- Under Voltage Lock Out Protection
- Over Voltage Lock Out Protection
- Remote On /Off Control
- Short Circuit Protection
- Over Voltage Protection
- 2 Years Warranty



## Model List

Model Number*	Input Voltage VDC	Output Voltage VDC	Output Current mA	Efficiency @Max. Load % (Typ.)
JR72-12S05V	9~18	5	12000	83
JR72-12S12V		12	6000	84
JR72-12S15V		15	4800	85
JR72-12D05V		±5	±7200	82
JR72-12D12V		±12	±3000	86
JR72-12D15V		±15	±2400	87
JR72-24S05V	18~36	5	12000	83
JR72-24S12V		12	6000	86
JR72-24S15V		15	4800	87
JR72-24D05V		±5	±7200	83
JR72-24D12V		±12	±3000	86
JR72-24D15V		±15	±2400	87
JR72-48S05V	36~75	5	12000	84
JR72-48S12V		12	6000	86
JR72-48S15V		15	4800	87
JR72-48D05V		±5	±7200	84
JR72-48D12V		±12	±3000	87
JR72-48D15V		±15	±2400	88
JR72-412S05V	9~36	5	12000	83
JR72-412S12V		12	6000	86
JR72-412S15V		15	4800	87
JR72-412D05V		±5	±7200	83
JR72-412D12V		±12	±3000	86
JR72-412D15V		±15	±2400	87
JR72-424S05V	18~75	5	12000	83
JR72-424S12V		12	6000	86
JR72-424S15V		15	4800	87
JR72-424D05V		±5	±7200	84
JR72-424D12V		±12	±3000	87
JR72-424D15V		±15	±2400	88

V1.0.1 2013

## Input Specifications

Input Filter		Pi Type
Surge Voltage (100 ms max.)	12Vin Models:	25V max.
	24Vin Models:	50V max.
	48Vin Models:	100V max.

## Output Specifications

Output Power		72W max.
Voltage Set Accuracy		±2%
Line Regulation (Low Line, High Line at Full Load)		±0.5%
Load Regulation (0% to 100% Full Load)	Single:	±0.5%
	Dual:	±2%
Ripple and Noise (20MHz Bandwidth)	3.3, 5VDC Models:	80mVpk-pk max.
	Others Models:	1%Voutpk-pk max.
Short Circuit Protection		Indefinite (Automatic Recovery)
Minimum Load		0%
Capacitive Load	5 Vout Models:	8600μF max.
	12 Vout Models:	6200μF max.
	15 Vout Models:	5200μF max.
	±5 Vout Models:	4300μF max. (Each Output)
	±12 Vout Models:	3100μF max. (Each Output)
	±15 Vout Models:	2600μF max. (Each Output)

## Environmental Specifications

Operating Temperature Range (Ambient)		-40°C to +75°C (with Derating)
Maximum Case Temperature		+95°C
Storage Temperature Range		-55°C to +115°C
Cooling		Free-air Convection
Temperature Coefficient		±0.05%/°C max.
Humidity		95%

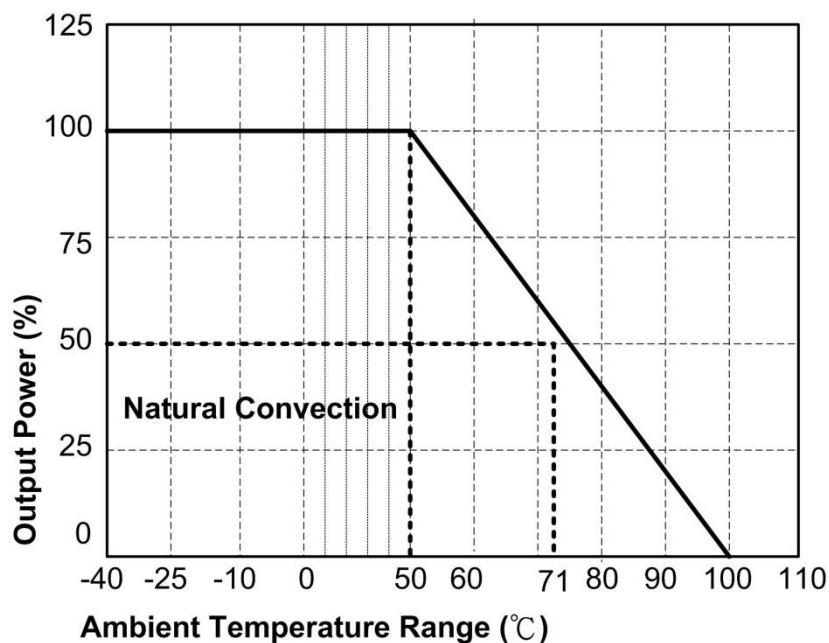
\*Note: The ON/OFF control function is optional. The model without control function is marked with suffix-A(eg. JR65-24S05A) and the control pin will be omitted. If you do not want function, please inform us on your order.

V1.0.1 2013

## General Specifications

Input Voltage Variation, dv/dt		Max. 5V
Over Load Protection (% of Full Load at Nominal Vin)		>110% typ.
Overvoltage Protection (Single)		Zener Diode Clamp
MTBF(MIL-HDBK-217F, at +25°C, Ground Benign)		>4×10 <sup>5</sup> Hours
Isolation Voltage (60 sec.)	Input/Output:	1500VDC
Isolation Capacitance	Input/Output:	1800pF typ.
Isolation Resistance	Input/Output(500VDC):	>1000Mohm
Switching Frequency (Fixed)		60kHz typ. (Pulse Width Modulation PWM)
Remote On/Off	On:	TTL High or Open Circuit
	Off:	TTL Low or Short Circuit
Safety Standards		CE Class B, UL Compliance
Conducted Noise		EN55022 EN55024

## Derating Graph

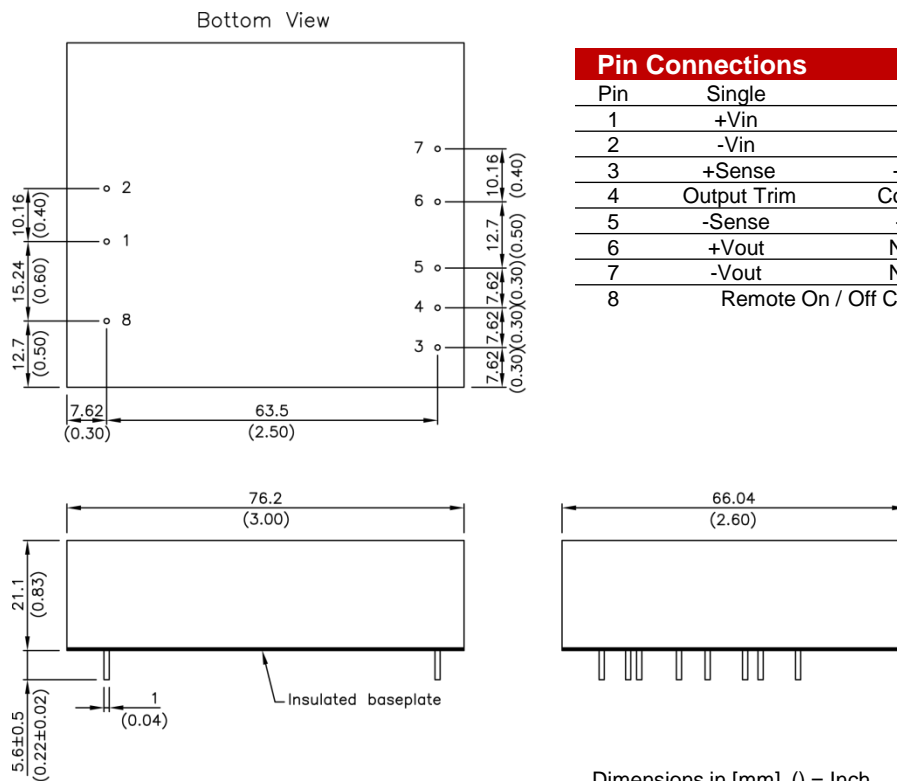


If you need more detailed information,  
please contact us via email at [sales@mail.longsun.tw](mailto:sales@mail.longsun.tw)

## Physical Specifications

Case Material	Nickel-Coated Copper with Non-Conductive Base
Baseplate Material	Non-Conductive Base FR4
Potting	Flammability to UL94V-0
Dimensions	3.0"x2.6"x0.83"
Weight	212g(7.47oz)
Soldering Temperature	max. 260°C/10s
Environmental Compliance Certification	Reach RoHS

## Outline Dimensions



### Pin Connections

Pin	Single	Dual
1	+Vin	+Vin
2	-Vin	-Vin
3	+Sense	+Vout
4	Output Trim	Common
5	-Sense	-Vout
6	+Vout	No Pin
7	-Vout	No Pin
8	Remote On / Off Control	

## Notes

1. All specifications are typical at  $T_a=25^{\circ}\text{C}$ , nominal input voltage, resistive load and rated output current unless otherwise noted.
2. All specifications are subject to change without notice.
3. Typical value is measured at nominal input voltage and no load.
4. Maximum value is measured at nominal input voltage and full load.
5. Typical value is measured at nominal input voltage and full load.

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