

Features :

- 2:1 & 4:1, 9V ~ 75V Input Range
- Regulated Output
- High Efficiency
- Short Circuit Protection
- Over Voltage Protection
- 24Pin DIP with Industry Standard Package and Pinout
- 2 Years Warranty



Model List

Model Number	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	Efficiency @Max.Load % (Typ.)
JD04-05S3V3	4.5~9	3.3	800	69
JD04-05S05V		5	800	73
JD04-05S12V		12	330	73
JD04-05S15V		15	265	73
JD04-05D05V		±5	±400	73
JD04-05D12V		±12	±166	73
JD04-05D15V		±15	±130	75
JD04-12S3V3	9~18	3.3	800	71
JD04-12S05V		5	800	75
JD04-12S12V		12	330	78
JD04-12S15V		15	265	80
JD04-12D05V		±5	±400	72
JD04-12D12V		±12	±166	75
JD04-12D15V		±15	±130	75
JD04-24S3V3	18~36	3.3	800	72
JD04-24S05V		5	800	77
JD04-24S12V		12	330	79
JD04-24S15V		15	265	80
JD04-24D05V		±5	±400	75
JD04-24D12V		±12	±166	77
JD04-24D15V		±15	±130	78
JD04-48S3V3	36~75	3.3	800	73
JD04-48S05V		5	800	77
JD04-48S12V		12	330	79
JD04-48S15V		15	265	80
JD04-48D05V		±5	±400	74
JD04-48D12V		±12	±166	77
JD04-48D15V		±15	±130	78
JD04-412S3V3	9~36	3.3	800	71
JD04-412S05V		5	800	74
JD04-412S12V		12	330	76
JD04-412S15V		15	265	76
JD04-412D05V		±5	±400	71
JD04-412D12V		±12	±166	74
JD04-412D15V		±15	±130	75
JD04-424S3V3	18~75	3.3	800	73
JD04-424S05V		5	800	79
JD04-424S12V		12	330	78
JD04-424S15V		15	265	78
JD04-424D05V		±5	±400	74
JD04-424D12V		±12	±166	75
JD04-424D15V		±15	±130	75

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Input Specifications

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

Output Specifications

Output Power		4W 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	3.3 Vout Models:	3300μF max.
	5 Vout Models:	1600μF max.
	12 Vout Models:	350μF max.
	15 Vout Models:	240μF max.
	±5 Vout Models:	1000μF max. (Each Output)
	±12 Vout Models:	160μF max. (Each Output)
	±15 Vout Models:	100μF max. (Each Output)

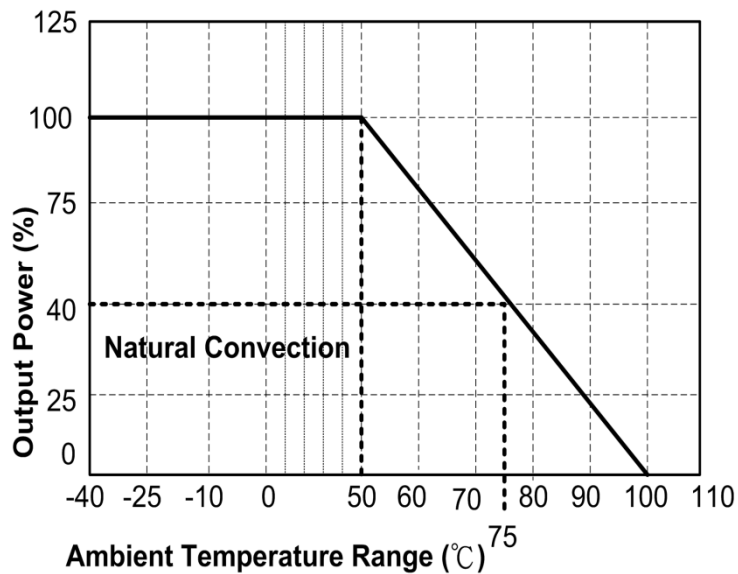
Environmental Specifications

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%

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)		>8×10 ⁵ Hours
Isolation Voltage (60 sec.)	Input/Output:	1500VDC
Isolation Capacitance	Input/Output:	470pF typ.
Isolation Resistance	Input/Output(500VDC):	>1000Mohm
Switching Frequency (Fixed)		300kHz typ. (Pulse Width Modulation PWM)
Safety Standards		CE Class A, UL Compliance
Conducted Noise		EN55022 EN55024

Derating Graph

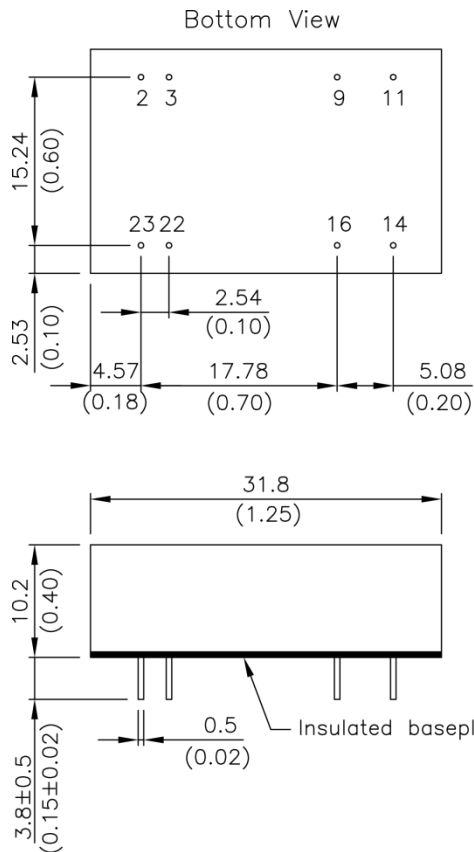


If you need more detailed information,
please contact us via email at sales@mail.longsun.tw

Physical Specifications

Case Material	Nickel-Coated Copper with Non-Conductive Base
Baseplate Material	Non-Conductive Base FR4
Potting	Flammability to UL94V-0
Dimensions	1.25"x0.8"x0.4"
Weight	18g(0.63oz)
Soldering Temperature	max. 260°C/10s
Environmental Compliance Certification	Reach RoHS

Outline Dimensions



Pin Connections

Pin	Single	Dual
22&23	+Vin	+Vin
2&3	-Vin	-Vin
9	NC	Common
11	NC	-Vout
14	+Vout	+Vout
16	-Vout	Common

Dimensions in [mm], () = Inch

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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