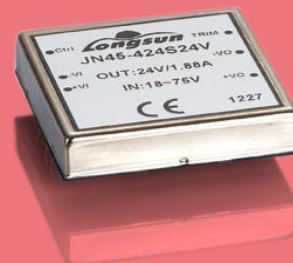


JN45 Series



Features :

- 2:1 & 4:1, 9V ~ 75V Input Range
- High Efficiency
- Remote On /Off Control
- Short Circuit Protection
- Over Voltage Protection
- 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.)
JN45-12S3V3	9~18	3.3	9000	83
JN45-12S05V		5	9000	84
JN45-12S12V		12	3750	85
JN45-12S15V		15	3000	85
JN45-12D05V		±5	±4500	84
JN45-12D12V		±12	±1850	85
JN45-12D15V		±15	±1500	85
JN45-24S3V3	18~36	3.3	9000	83
JN45-24S05V		5	9000	84
JN45-24S12V		12	3750	86
JN45-24S15V		15	3000	86
JN45-24D05V		±5	±4500	84
JN45-24D12V		±12	±1850	86
JN45-24D15V		±15	±1500	86
JN45-48S3V3	36~75	3.3	9000	83
JN45-48S05V		5	9000	84
JN45-48S12V		12	3750	86
JN45-48S15V		15	3000	86
JN45-48D05V		±5	±4500	84
JN45-48D12V		±12	±1850	86
JN45-48D15V		±15	±1500	86
JN45-412S3V3	9~36	3.3	9000	83
JN45-412S05V		5	9000	84
JN45-412S12V		12	3750	85
JN45-412S15V		15	3000	85
JN45-412D05V		±5	±4500	84
JN45-412D12V		±12	±1850	85
JN45-412D15V		±15	±1500	85
JN45-424S3V3	18~75	3.3	9000	83
JN45-424S05V		5	9000	84
JN45-424S12V		12	3750	86
JN45-424S15V		15	3000	86
JN45-424D05V		±5	±4500	84
JN45-424D12V		±12	±1850	86
JN45-424D15V		±15	±1500	86

*Note: The ON/OFF control function is optional. The model without control function is marked with suffix-A(eg. JH15-24S05A) and the control pin will be omitted. If you do not want function, please inform us on your order.

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		45W 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:	9800μF max.
	5 Vout Models:	7800μF max.
	12 Vout Models:	5600μF max.
	15 Vout Models:	4900μF max.
	±5 Vout Models:	3900μF max. (Each Output)
	±12 Vout Models:	2800μF max. (Each Output)
	±15 Vout Models:	2400μF max. (Each Output)

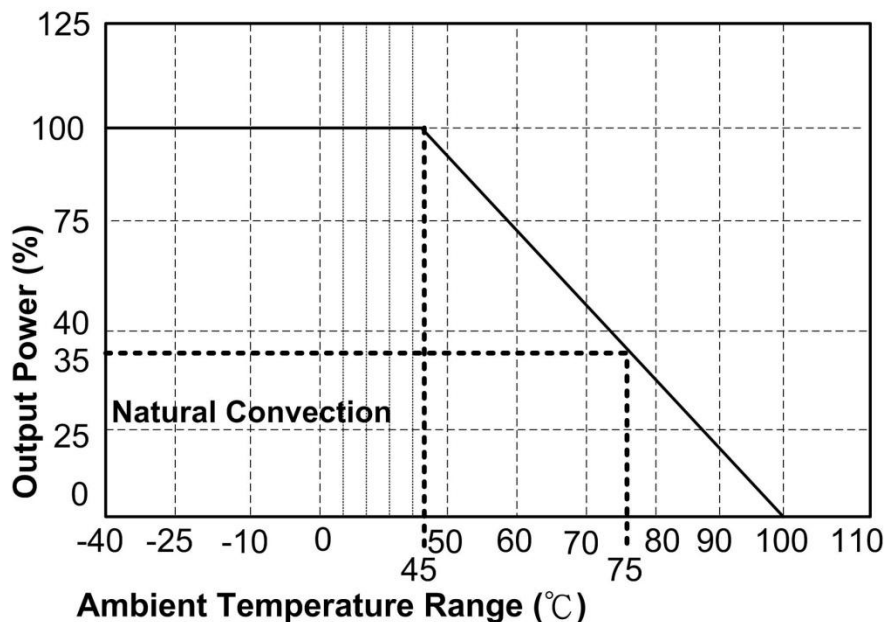
Environmental Specifications

Operating Temperature Range (Ambient)		-40°C to +75°C (with Derating)
Maximum Case Temperature		+100°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)		>4×10 ⁵ Hours
Isolation Voltage (60 sec.)	Input/Output:	1500VDC
Isolation Capacitance	Input/Output:	1800pF typ.
Isolation Resistance	Input/Output(500VDC):	>1000Mohm
Switching Frequency (Fixed)		250kHz typ. (Pulse Width Modulation PWM)
Remote On/Off	On:	TTL High or Open Circuit
	Off:	TTL Low or Short Circuit
Safety Standards		CE Class A, UL Compliance
Conducted Noise		EN55022 EN55024

Derating Graph

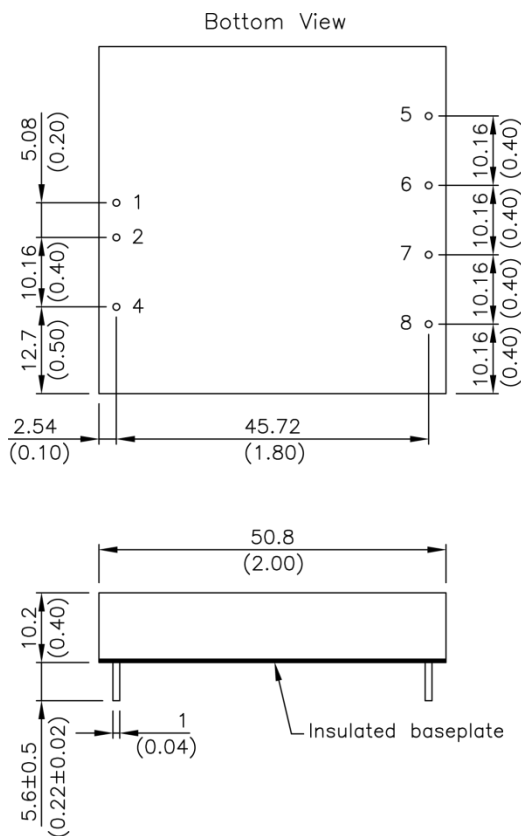


If you need more detailed information,
please contact us via email at sales@mail.longsun.tw

Physical Specifications

Case Material	Nickel-Coated Copper with Non-Conductive Base
Baseplate Material	Non-Conductive Base FR4
Potting	Flammability to UL94V-0
Dimensions	2.0"x2.0"x0.4"
Weight	65g(2.29oz)
Soldering Temperature	max. 260°C/10s
Environmental Compliance Certification	Reach RoHS

Outline Dimensions



Pin Connections

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

Notes

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

V1.0.1 2013