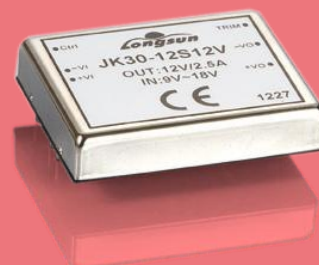


JK30 Series



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.)
JK30-12S3V3	9~18	3.3	6000	80
JK30-12S05V		5	6000	82
JK30-12S12V		12	2500	85
JK30-12S15V		15	2000	85
JK30-12S24V		24	1250	86
JK30-12D05V		±5	±3000	81
JK30-12D12V		±12	±1250	85
JK30-12D15V		±15	±1000	85
JK30-24S3V3	18~36	3.3	6000	82
JK30-24S05V		5	6000	83
JK30-24S12V		12	2500	85
JK30-24S15V		15	2000	85
JK30-24S24V		24	1250	86
JK30-24D05V		±5	±3000	83
JK30-24D12V		±12	±1250	86
JK30-24D15V		±15	±1000	86
JK30-48S3V3	36~75	3.3	6000	80
JK30-48S05V		5	6000	83
JK30-48S12V		12	2500	85
JK30-48S15V		15	2000	85
JK30-48D05V		±5	±3000	83
JK30-48D12V		±12	±1250	85
JK30-48D15V		±15	±1000	85
JK30-412S3V3		9~36	3.3	6000
JK30-412S05V	5		6000	82
JK30-412S12V	12		2500	85
JK30-412S15V	15		2000	85
JK30-412S24V	24		1250	86
JK30-412D05V	±5		±3000	82
JK30-412D12V	±12		±1250	85
JK30-412D15V	±15		±1000	85
JK30-424S3V3	18~75	3.3	6000	80
JK30-424S05V		5	6000	83
JK30-424S12V		12	2500	85
JK30-424S15V		15	2000	85
JK30-424D05V		±5	±3000	83
JK30-424D12V		±12	±1250	86
JK30-424D15V		±15	±1000	86

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		30W 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:	9,600µF max.
	5 Vout Models:	7,600µF max.
	12 Vout Models:	5200µF max.
	15 Vout Models:	4800µF max.
	±5 Vout Models:	3800µF max. (Each Output)
	±12 Vout Models:	2600µF 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%

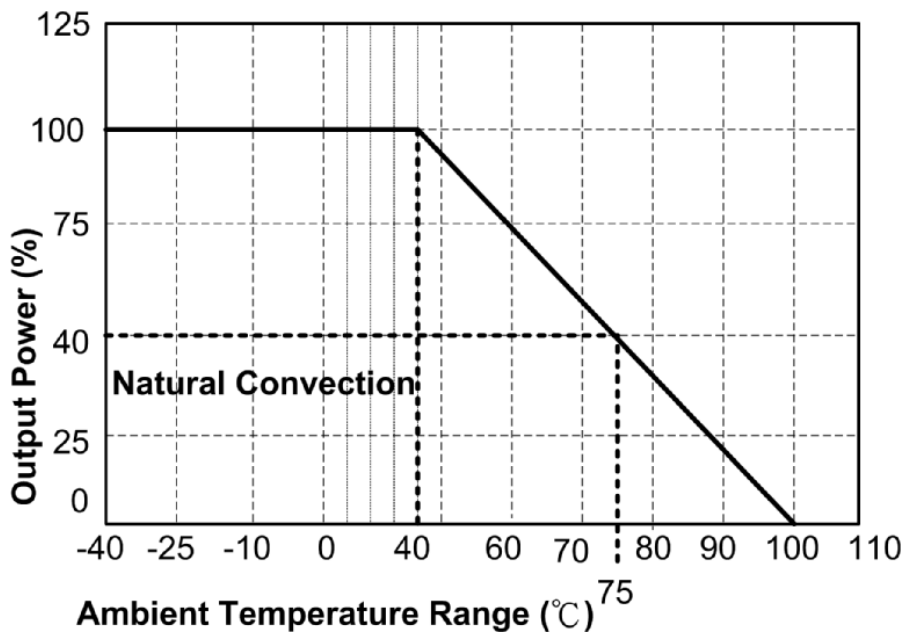
*Note: The ON/OFF control function is optional. The model without control function is marked with suffix-A(eg. JK30-24S05A) and the control pin will be omitted. If you do not want function, please inform us on your order.

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 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

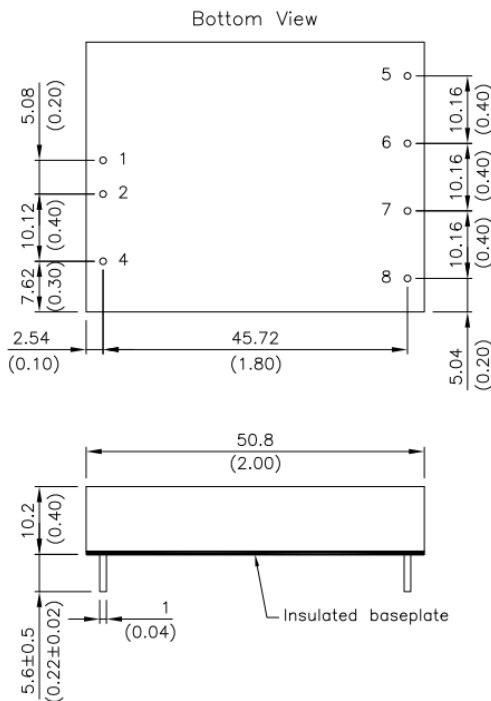


If you need more detailed information,
please contact us via email at sales@mail.longsun.tw

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"x1.6"x0.4"
Weight	50g(1.76oz)
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	

Dimensions in [mm], () = Inch

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