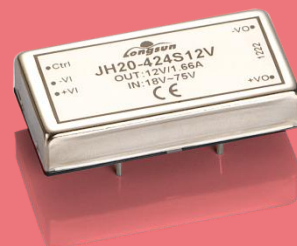


Features :

- 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.)
JH20-12S3V3	9~18	3.3	4000	77
JH20-12S05V		5	4000	79
JH20-12S12V		12	1660	83
JH20-12S15V		15	1330	84
JH20-12D05V		±5	±2000	79
JH20-12D12V		±12	±830	83
JH20-12D15V		±15	±660	84
JH20-24S3V3	18~36	3.3	4000	77
JH20-24S05V		5	4000	79
JH20-24S12V		12	1660	84
JH20-24S15V		15	1330	83
JH20-24D05V		±5	±2000	80
JH20-24D12V		±12	±830	83
JH20-24D15V		±15	±660	84
JH20-48S3V3	36~75	3.3	4000	79
JH20-48S05V		5	4000	80
JH20-48S12V		12	1660	85
JH20-48S15V		15	1330	86
JH20-48D05V		±5	±2000	79
JH20-48D12V		±12	±830	85
JH20-48D15V		±15	±660	86
JH20-412S3V3	9~36	3.3	4000	77
JH20-412S05V		5	4000	81
JH20-412S12V		12	1660	83
JH20-412S15V		15	1330	84
JH20-412D05V		±5	±2000	79
JH20-412D12V		±12	±830	83
JH20-412D15V		±15	±660	84
JH20-424S3V3	18~75	3.3	4000	80
JH20-424S05V		5	4000	77
JH20-424S12V		12	1660	83
JH20-424S15V		15	1330	84
JH20-424D05V		±5	±2000	79
JH20-424D12V		±12	±830	83
JH20-424D15V		±15	±660	84

*Note: The ON/OFF control function is optional. The model without control function is marked with suffix-A(eg. JH20-24S05A) 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 Typ5e
Surge Voltage (100 ms max.)	12Vin Models:	25V max.
	24Vin Models:	50V max.
	48Vin Models:	100V max.

Output Specifications

Output Power		20W 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:	8100μF max.
	5 Vout Models:	4700μF max.
	12 Vout Models:	680μF max.
	15 Vout Models:	470μF max.
	±5 Vout Models:	2300μF max. (Each Output)
	±12 Vout Models:	340μF max. (Each Output)
	±15 Vout Models:	230μF max. (Each Output)

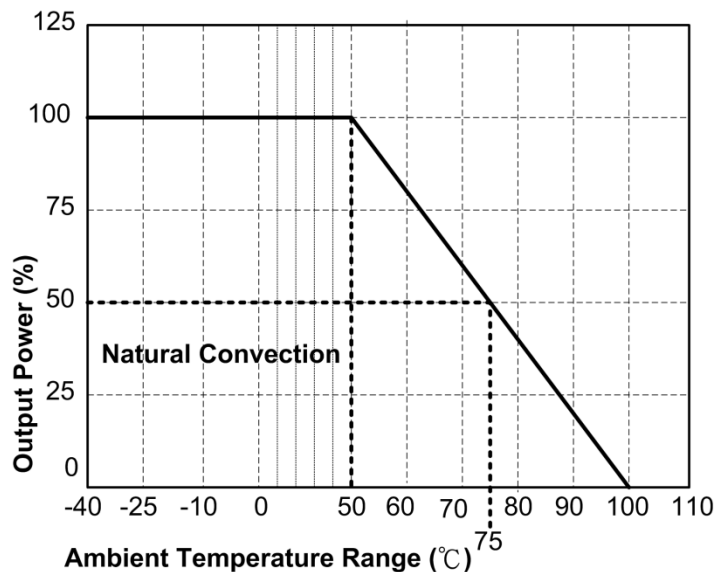
Environmental Specifications

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)		>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)		200kHz 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

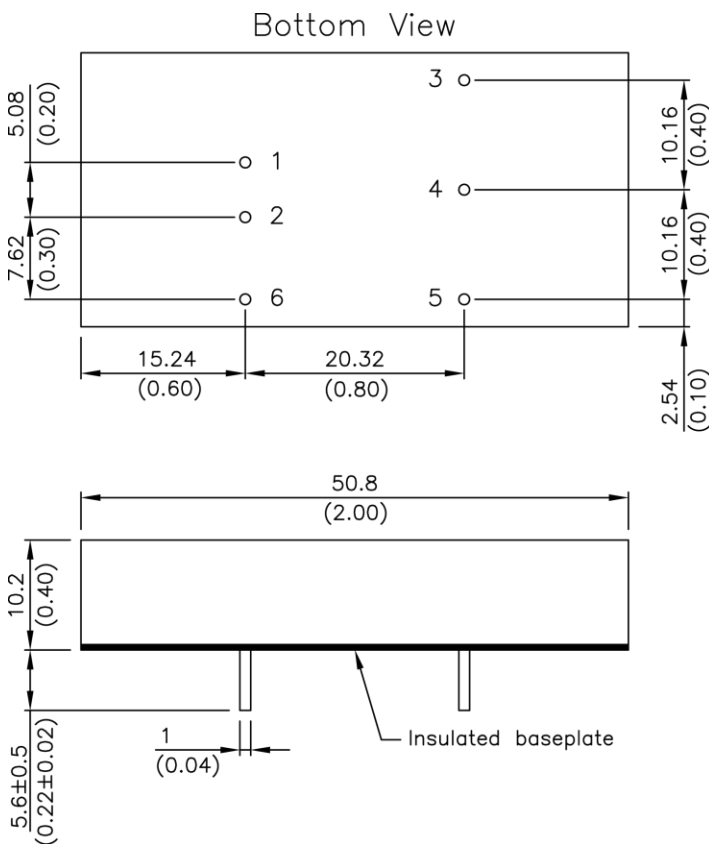


If you need more detailed information,
please contact us via email at sales@mail.longsun.tw

Physical Specifications

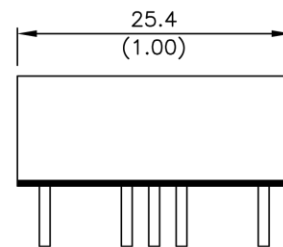
Case Material	Nickel-Coated Copper with Non-Conductive Base
Baseplate Material	Non-Conductive Base FR4
Potting	Flammability to UL94V-0
Dimensions	2.0"x1.0"x0.4"
Weight	33g(1.16oz)
Soldering Temperature	max. 260°C/10s
Environmental Compliance Certification	Reach RoHS

Outline Dimensions



Pin Connections

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



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.

V1.0.1 2013