

ARLITECH

## HDK30A Series



## Features

- 2:1 Wide Input Voltage Range
- Fully Encapsulated Metal Case
- Available RoHS Compliant
- UL, CE Safety Approving
- Industry -Standard Package and Pinout
- 50.80 x 25.40 x 10.16 mm package
- 2 Years Warranty

## SAFETY&EMC

### SAFETY

- UL *UL60950-1(Pending)*
- TUV *EN60950-1(Pending)*

### EMC

- Conduction *EN55022 (Class B)*
- Radiation *EN55022 (Class B)*

## Specifications

### Input

<b>Input Voltage Range</b>	9~18 Vdc(12V Nom.) 18~36 Vdc(24V Nom.) 36~75 Vdc(48V Nom.)
●Input Surge Voltage	36/50/100Vdc(100ms Pulse)
●Input Filter	Common Choke Type
●Reflected Ripple Current	60mA p-p
●Start-up Time	250ms
●Enable(Optional)	Positive/ Negative

### Output

●Output Power	30W
●Min Load Current	5%
●Voltage Accuracy	±2%
●Line Regulation	±1%
●Load Regulation	±1%(5%~100% load)
●Transient Recovery Time	250us
●Transient Response Deviation	±4% of Vout(25% load step)
●Temperature Coefficient	±0.02%
●Ripple/Noise	75mV (12V, 15V) 50mV (3.3V, 5V)

### Protection

- Over Voltage Protection (Zener Diode clamp)
- Over Load Protection (Fold Back)
- Short Circuit Protection (Auto Recovery)

### General

●Isolation Voltage (In/Out)	1600 Vdc
●Isolation Capacitance	220pF
●Isolation Resistance	1G ohm
●Case Material	Copper
●Weight	30g

## Environmental

- Operating Temperature *-40°C~120°C (Derating)*
- Storage Temperature *-55°C~125°C*
- Cooling *Free air convection*
- Humidity *20% ~ 95%RH*
- MTBF *>1.5 Million hours*

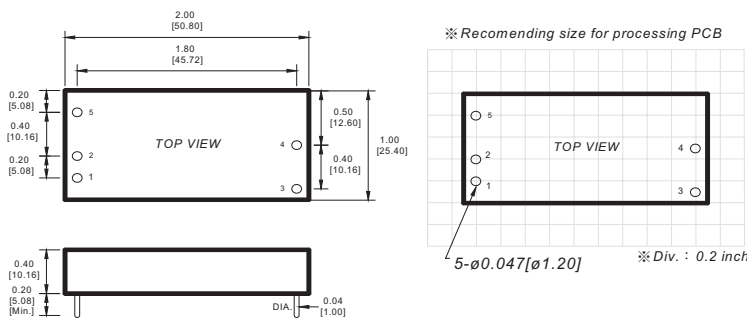
### Ordering Information

SBS Power Electronic GmbH & Co.KG  
 Weidenstrasse 19, 21635 Jork  
 Tel:04162-911123 Info@SBS-Power.de

Module Number	Output Voltage	Output Current	Efficiency	Capacitor Load
HDK30A-12S3P3	3.3V	9000mA	84%	6800uF
HDK30A-12S05	5V	6000mA	87%	4700uF
HDK30A-12S12	12V	2500mA	88%	2200uF
HDK30A-12S15	15V	2000mA	88%	1000uF
HDK30A-24S3P3	3.3V	9000mA	84%	6800uF
HDK30A-24S05	5V	6000mA	87%	4700uF
HDK30A-24S12	12V	2500mA	88%	2200uF
HDK30A-24S15	15V	2000mA	88%	1000uF
HDK30A-48S3P3	3.3V	9000mA	84%	6800uF
HDK30A-48S05	5V	6000mA	87%	4700uF
HDK30A-48S12	12V	2500mA	88%	2200uF
HDK30A-48S15	15V	2000mA	88%	1000uF

### Pin Define

Pin No.	1	2	3	4	5
Single	+VI	-VI	+VO	-VO	ENABLE (OPTION)



Dimensions : inch [mm]  
 Pin pitch tolerance :±0.012[0.30]

### Notes

- All specification are typical at nominal line, full load ,and 25 °C ambient air temperature.
- Ripple/Noise measured with a 1uF M/C and 100uF E/C(20MHz bandwidth)
- Certain applications may require to install an external 4A slow blow type fuse in front of the input.
- To measure input reflected ripple current must with a simulated source inductance of 12uH, and capacitor of 220 uF offsets possible battery impedance, capacitor of 33uF mounted close to the module help ensure the stability.