

ARLITECH

HDK20 Series



Features

- 4:1 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

- Input Voltage Range *10~40 Vdc(24V Nom.)
18~75 Vdc(48V Nom.)*
- Input Surge Voltage *50/100Vdc(100ms Pulse)*
- Input Filter *π Type*
- Reflected Ripple Current *60mA p-p*
- Start-up Time *150ms*
- Enable(Optional) *Positive/ Negative*

Output

- Output Power *20W*
- Min Load Current *10%*
- Voltage Accuracy *±2%*
- Line Regulation *±1%*
- Load Regulation *±1%(10%~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 *27g*

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*

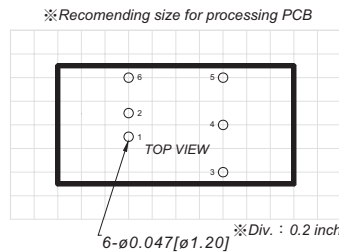
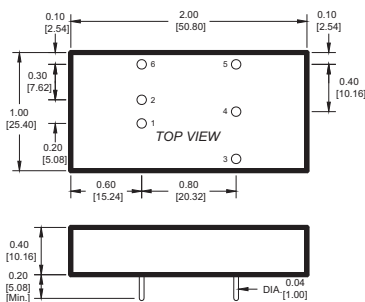
Ordering Information

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
HDK20-24S3P3	3.3V	6000mA	75%	4700uF
HDK20-24S05	5V	4000mA	84%	2200uF
HDK20-24S12	12V	1670mA	83%	1000uF
HDK20-24S15	15V	1340mA	83%	680uF
HDK20-48S3P3	3.3V	6000mA	75%	4700uF
HDK20-48S05	5V	4000mA	84%	2200uF
HDK20-48S12	12V	1670mA	83%	1000uF
HDK20-48S15	15V	1340mA	83%	680uF

Pin Define

Pin No.	1	2	3	4	5	6
Single	+VI	-VI	+VO	NO PIN	-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 3A 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.