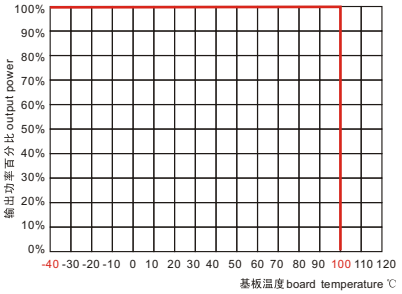
HDC 150~200 Half brick Series

SHINHOM
www.shinhom.com

典型性能 Typical performance

- ⊙ 宽范围输入 Wide Input voltage range
- ⊙ 转换效率 (典型90%) Typical Efficiency 90%
- ⊙ 开关频率 Switching frequency：300KHz±30 KHz
- ⊙ 过流、短路保护，自动恢复Over current/Short circuit protection,,Self-furbish
- ⊙ 输入与输出高隔离Input-output isolate (1500Vdc)
- ⊙ PCB 板上直插式安装Board in-line type installs
- ⊙ 高功率密度 High power density

温度曲线图 Temper ature graph



技术参数
Technology parameter

测试条件：如无特殊指定，所有参数测试均在标称输入电压、纯阻性额定负载及25℃室温环境下测得。
Test condition:General Nominal Line,Tc=25℃, Rated resistant load unless other wisespecified

输入特性 Input	Min	Nom	Max	Notes
输入电压Vdc Input voltage	36	48	72	W 2:1
遥控端Rremote ON/OFF		低电平遥控 control	高电平或悬空工作 high-voltage or Suspended work	3.5Vdc~+Vin
			低电平或接地关断 low-voltage or ground off	≤0.3Vdc
输入欠压保护 Under voltage protect	低于低端输入电压保护，自动恢复 Lower than the low-input voltage protection, Self-urbish			

输出特性 Output			
输出电压精度Voltage accuracy		Vo1	±1.0%
源效应Line regulation	标称负载，全电压范围 Nominal Load, full voltage range	Vo1	±0.2%
负载效应Load regulation	20%~100%额定负载(Rated load)	Vo1	±0.5%
纹波及噪声Ripple and noise	20MHz BM 满载(Full load) Vo≤5.0V,≤50mVp-p；Vo≥48V,≤180mVp-p； Other,≤100mVp-p;		
动态响应Dynamicresponse	25%的标称负载阶跃 25% of the nominal load step	△Vo1/△t	±3.0/200us%
输出电压调节Voltage adjust	标称输出电压 Nominal output	TRIM	±10%可调 (Adjustable)
启动延迟时间Start delay time	典型值 Tpical value		≤200mS

一般特性 General			
转换效率Efficiency	标称电压输入，满载 Nominal input, Full load	Vo≤5.0V,89% 典型(Typical)	Vo>5.0V, 90%典型(Typical)
开关频率Switchingfrequency		300KHz 典型 (Typical)	最大 (Max) 330KHz
工作基板温度Board temperature		自由空气对流 (Free air)	-40℃~+100℃
储存温度Storage temperagure			-50℃~+125℃
相对湿度Relative humidity			10%~90%
外壳材料(case material)			铝基板 aluminum baseplate
隔离电压(Isolation Voltage)	输入与输出 Input-output 1500Vdc; I输入与输出与基板input/output-baseplate 500Vdc		
最小无故障间隔时间(MTBF)	$3x10^5$Hrs		

产品命名方式 Product Nomination Method

举例 Forexample	H DC 150 — 48 S 12 ① ② ③ ④ ⑤ ⑥

HDC 150~200 Half brick Series

SHINHOM
www.shinhom.com

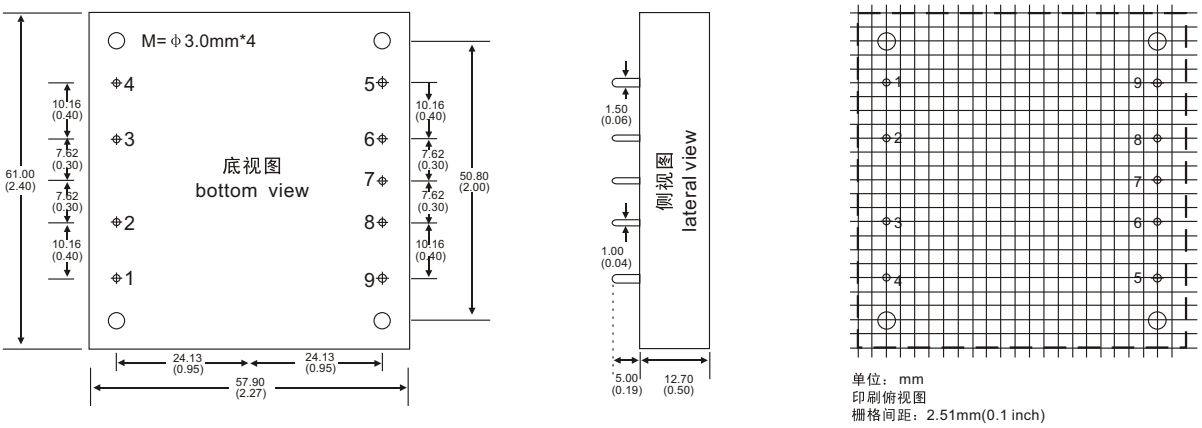
①	宽压输入： Wide input voltage	④	表示输入电压标称值 nominal value of input voltage
②	电源转换模式 DC-DC: Power conversion mode DC-DC	⑤	S 单路输出 S: Single output
③	表示输出功率大小 Ouput Power	⑥	输出电压大小 Output Voltage

典型产品列表 Typical product tabulates

型号 TYPE	输入电压范围 Input voltage range	输出电压/电流 （Output voltage / current）					
		VO1		VO2		VO3	
		V	A	V	A	V	A
HDC150-48S12	48 V (36~72V)	12V	12.5A				
HDC200-48S28		28V	7.2A				
HDC200-48S12		12V	16.66A				

注：□ 代表输入电压标称值，因篇幅有限，以上只是部分产品列表，若需列表以外产品，请与本公司销售部联系。
□ Shows the nominal value of input voltag e,due to space limit ations the abov e list is only for some produ cts,If other than a list of products,please contact the Companys sales department.

封装尺寸图 Mechanical Data



单位： mm
印刷俯视图
栅格间距：2.51mm(0.1 inch)

封装尺寸 Mechanical Data

封装代号 Package Code	L x W x H 单位：mm	封装号 Package No
半砖 Half brick	61.00x57.90x12.70	228240DC

管脚定义 Pin Assignments

管脚号码 Pin Number	1	2	3	4	5	6	7	8	9	
单路（S）S: Single	+Vin	REM	CASE	-Vin	GND	-S	TRIM	+S	+Vout	

*注意：电源模块的各管脚定义如与选型手册不符，应以实物标签上的标注为准。
*Note：The power modules such as the definition of the pin does not match with the hand book, please refer to the actual item.