



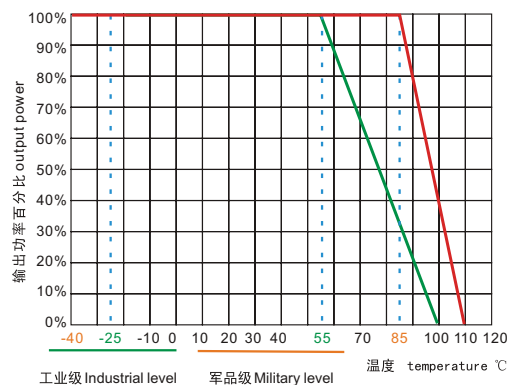
HDC10-15 Series

DC/DC 宽压输入 10-15W (DC/DC wide input 10-15W)

典型性能 Typical performance

- 宽范围输入 Wide Input voltage range (2:1 or 4:1)
- 转换效率 (典型 80%) Typical Efficiency 80%
- 开关频率 Switching frequency: 300KHz $\pm$ 30 KHz
- 长期短路保护, 自动恢复 Short circuit protection, Self-furbish
- 输入与输出高隔离 Input-output isolate (500/1000/1500Vdc)
- PCB 板上直插式安装 Board in-line type installs
- 金属外壳, 输出纹波低 Metal case, Low Output Ripple

温度曲线图 Temperature graph



技术参数

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。

Technology parameter

Test condition: General Nominal Line, Tc=25℃, Rated resistant load unless other wispecified

输入特性 Input	Min	Nom	Max	Notes
输入电压 Vdc	4.5	5	9	W 2:1
Input voltage	9	12	18	W 2:1
	18	24	36	W 2:1
	36	48	72	W 2:1
	72	110	144	W 2:1
	10	12	36	W 4:1
	18	48	72	W 4:1
遥控端 Rremote ON/OFF	无遥控端 Non			
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-furbish			

输出特性 Output

输出电压精度 Voltage accuracy		Vo1, V02	$\pm 1.0\%$, $\pm 2.0\%$
源效应 Line regulation	标称负载, 全电压范围 Nominal Load, full voltage range	Vo1, V02	$\pm 0.2\%$, $\pm 1.5\%$
负载效应 Load regulation	20% ~ 100%额定负载	Vo1, V02	$\pm 0.5\%$, $\pm 4.0\%$
纹波及噪声 Ripple and noise	20MHz BM 满载 Vo $\leq$ 5.0V, $\leq$ 50mVp-p; Vo $\geq$ 48V, $\leq$ 180mVp-p; Other, $\leq$ 100mVp-p;		
动态响应 Dynamic response	25%的标称负载阶跃	$\Delta Vo1/\Delta t$	$\pm 4.0/500\mu s\%$
输出电压调节 Voltage adjust	标称输出电压 Nominal output	无调节端 Non	
启动延迟时间 Start delay time	典型值 Typical value		$\leq 200mS$

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, 75%典型	Vo>5.0V, 80%典型(Typical)
开关频率 Switching frequency		300KHz 典型(Typical)	最大 330KHz
工作温度 Operating temperature	自由空气对流 Free air	工业级 Industrial level	-25℃~+55℃
		军品级 Military level	-40℃~+85℃
储存温度 Storage temperature		工业级 Industrial level	-40℃~+105℃
		军品级 Military level	-55℃~+120℃
最大壳温 Max case temperature		工业级 Industrial level	+100℃
		军品级 Military level	+110℃
相对湿度 Relative humidity			10%~90%
外壳材料 case material	金属壳 Metal case		
隔离电压 Isolation Voltage	输入与输出 500/1000/1500 Vdc ≤0.5mA/1min, 输入与外壳 500Vdc ≤0.5mA/1min		
最小无故障间隔时间(MTBF)	2X10 ⁵ Hrs		

产品命名方式 Product Nomination Method

举例	H DC 10 — 48 S 05 J ① ② ③ ④ ⑤ ⑥ ⑦						
①	宽压输入: 2: 1 Wide input voltage	⑥	输出电压大小 Output Voltage				
②	电源转换模式: DC (DC-DC) Dc-dc Converter	⑦	J 表示军品级, 无表示工业级 J: That Military Level, nothing That Industrial Level				
③	表示输出功率大小 Output Power		G 表示输入输出非隔离 G: That Input Output Non-isolated				
④	表示输入电压标称值 Input voltage		I 表示双路输出隔离 I: That Dual-input Isolation				
⑤	S 单路输出, D 双路输出, S: Single output, D: dual output,		W 表示超宽范围4:1输入 W: That Wide Range Of 4:1 Input				

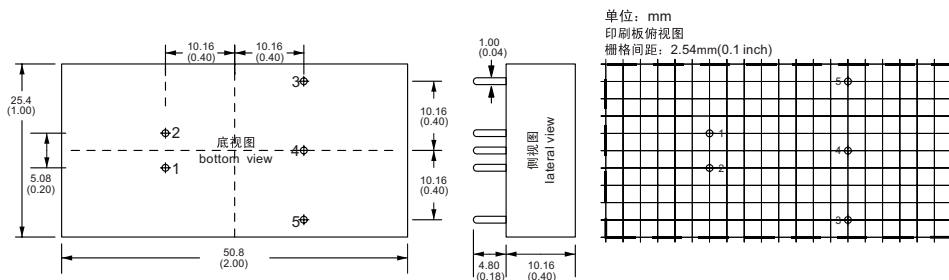
典型产品列表 Typical product tabulates

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	mA	V	mA	V	mA
HDC10-□S3V3	5V (4.5~9V) (不包含 HDC15) 12V (9~18V) 24V (18~36V) 48V (36~72V) 110V (72~144V) 12V (10~36V) W 48V (18~72V) W	3.3V	2000mA				
HDC10-□S05		5V	2000mA				
HDC10-□S09		9V	1110mA				
HDC10-□S12		12V	830mA				
HDC10-□S15		15V	660mA				
HDC10-□S24		24V	410mA				
HDC12-□S3V3		3.3V	2400mA				
HDC12-□S05		5V	2400mA				
HDC12-□S09		9V	1330mA				
HDC12-□S12		12V	1000mA				
HDC12-□S15		15V	800mA				
HDC12-□S24		24V	500mA				
HDC15-□S05		5V	3000mA				
HDC15-□S12		12V	1200mA				
HDC15-□S15		15V	1000mA				
HDC15-□S24		24V	625mA				

HDC10-□D3V3	5V (4.5~9V) (不包含 HDC15) 12V (9~18V) 24V (18~36V) 48V (36~72V) 110V (72~144V) 12V (10~36V) W 48V (18~72V) W	+3.3V	1000mA	-3.3V	1000 mA		
HDC10-□D05		+5V	1000mA	-5V	1000 mA		
HDC10□D09		+9V	220mA	-9V	550 mA		
HDC10-□D12		+12V	410mA	-12V	410 mA		
HDC10-□D15		+15V	330mA	-15V	330 mA		
HDC10-□D24		+42V	210mA	-42V	210 mA		
HDC12-□D3V3		+3.3V	1200mA	-3.3V	1200 mA		
HDC12-□D05		+5V	1200mA	-5V	1200 mA		
HDC12-□D09		+9V	660mA	-9V	660 mA		
HDC12-□D12		+12V	500mA	-12V	500 mA		
HDC12-□D15		+15V	400mA	-15V	400 mA		
HDC12-□D24		+24V	250mA	-24V	250 mA		
HDC15-□D05		+5V	1500mA	-5V	1500 mA		
WDC15-□D09		+9V	830mA	-9V	830 mA		
HDC15-□D12		+12V	600mA	-12V	600 mA		
HDC15-□D15		+15V	500mA	-15V	500 mA		
HDC15-□D24		+24V	310mA	-24V	310 mA		

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 voltage, due to space limitations, the abovelist is only for some products, if other than a list of products, please contact the Company's sales department.

封装尺寸图 Mechanical Data



封装尺寸 Mechanical Data

封装代号	L x W x H 单位: mm	封装号
	50.80 x 25.40 x 10.16	200100DC

管脚定义 Pin Assignments

管脚号码	1	2	3	4	5				
单路 (S)	-Vin	+Vin	+Vout	NP	GND				
双路 (D)	-Vin	+Vin	+Vout1	COM	-Vout2				

*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.