# HDC-50~150W Series

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注释 (Notes and Conditions)

### 特点 Features

- Size 外形尺寸
- ▶ 61.0x57.9x12.7mm
- 工业标准半砖封装和引脚
- Industry-standard Half-brick FootprintAnd Pinout 高效率、高功率密度
- High Efficiency, High Power Density 基板工作温度100℃
- ➢ Substrate Temperature 100 ℃

#### 特征 Features

Size 外形尺寸

> 2.40x2.28x0.50inch

工业标准半砖封装和足迹

- Industry Standard Half-Brick Package and Footprint 高效率、高功率密度
- High Efficiency, High Power Density 100℃底板行动
- ▶ 100°C Baseplate Operation

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### 输入特性 Input



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### 输出特性 Input

输出电压精度(Voltage Set-Point Accuracy)	±1%	Vinom and lonom	
输出电压调节范围 (Output Voltage Trim Range)	±10%		
源效应 (Line Regulation)	±0.2%Vo	Vimin~Vimax, Ionom	
负载效应 (Load Regulation)	$\pm$ 0.5&Vo	10%~100%lonom,Vinom	
输出过压保护 (Output Overvoltage Protection)	120%~140%Vo	Self Recovering	
输出过流保护点 (Current Limit Threshold Range)	110%~150%lo		
短路保护 (Short-Circuit Protection)	连续可恢复(Continuous,Automatic Recovery)		
瞬态响应 (Dynamic Response)			
过冲幅度 (Peak Deviation)	$\pm$ 5%Vo	25%-50%-25% of lonom	
恢复时间 (Settling Time)	200 µ s	and 50%-75%-50% of lonom	

# 一般特性(General)

温度系数 (Temperature Coefficient)	$\pm$
隔离电压 (Isolation Voltage)	
输入与输出 (Input-Output)	150
输入与外壳 (Input-Case)	150
输出与外壳 (Output-Case)	50
工作基板温度(Operating Baseplate Temperature)	-40
贮存温度 (Storage Temperature)	
冷却方式 (Cooling)	
过温保护 (Thermal Shutdown Range)	
平均故障间隔时间 (MTBF)	
重量 (Weight)	

注:除非另有说明,指标一般在标称输入电压、满载和25℃基板温度下测得。 Note: All specifications are typical at nominal input, full load at 25°C baseplate temperature unless otherwise stated.

输入电压范围 (Input Voltage Range)			
标称(Nominal)	48Vdc	36~75Vdc	80Vdc Max
标称(Nominal)	24Vdc	18~36Vdc	40Vdc Max
输入欠压保护 Input Undervoltage Protection	<36Vdc (IN:48Vdc);<18Vdc(IN:24Vdc)		
遥控功能 Remote On/Off Function			
1)正逻辑 Positive Logic	开启(On)	高电平(.5~18Vdc)或悬空 (High Level or Open Circuit)	相对于-Vin(Reference to-Vin)
	关闭(Off)	低电平 (<1.4Vdc) 或与-Vin 短接 Low Level or Connect to	
2)负逻辑 Negative Lotic	开启(On)	低电平 (<0.4Vdc)或与-Vin 短接 (Low Level or Connect to-Vin)	相对于-Vin(Reference to -Vin)
	关闭(Off)	高电平(1.4~18Vdc) 或悬空 (High	n Level or Open Circuit)



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<b>:0.02%</b> ℃	
00Vdc 1min	
00Vdc 1min	
00Vdc 1min	
)℃~=+100℃	
0℃~+125℃	
<b>专散热器</b> 或强制	J风冷 Attach Heatsink of Forced Convection
00℃~110℃	基板温度 (Baseplate Temperature)
2X105h	MIL-HDBK-217
80g	

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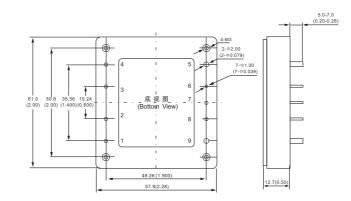
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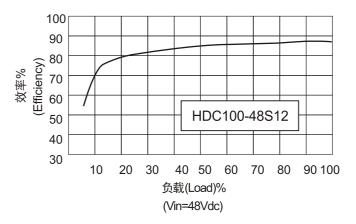
### 型号列表(Models)

产品武型号 (1Model Number)	标称输入电压 (Input Voltage) Vdc	标称输出电压 (Output Voltage) Vdc	标称负载 (Output Current) A	额定输出功率 (Output Power) W	效率 (Efficiency) %	输出杂音电压峰峰值 (Ripple and Noise) mVp-p
HDC120-48S09	48	9.0*	13	120	84	200
HDC50-48S12	48	12.0	4.2	50	86	100
HDC100-48S12	48	12.0	8.4	100	85	100
HDC150-48S12	48	12.0	12.5	150	84	100
HDC150-48S12T	48	12.0	12.5	150	90	100
HDC50-48S15	48	15.0	3.3	50	87	100
HDC75-48S15	48	15.0	5	75	87	100
HDC100-48S15	48	15.0	6.67	100	85	100
HDC150-48S15	48	15.0	10	150	85	100
HDC100-48S24	48	24.0	4.2	100	86	200
HDC150-48S24	48	24.0	6.3	150	87	200
HDC150-48S26	48	26.0	5.8	150	87	200
HDC150-48S26A	48	26.0	5.8	150	87	200
HDC50-24S12	24	12.0	4.2	50	85	100
HDC100-24S12	24	12.0	8.4	100	85	100
HDC150-24S12	24	12.0	12.5	150	88	100
HDC50-24S15	24	15.0	3.3	50	85	100
HDC100-24S15	24	15.0	6.67	100	85	100
HDC150-24S15	24	20.0	7.5	150	86	200
HDC50-24S24	24	24.0	2.1	50	86	200
HDC100-24S24	24	24.0	4.2	100	85	200
HDC50-24S28	24	28.0	1.8	50	86	200
HDC50-24S48	24	48.0	1.04	50	86	200
HDC150-24S48	24	48.0	3.1	150	86	300

安装尺寸(Mechanical Drawing)



效率负载曲线(Curve of Efficiency vs.Load)



注: 1、负逻辑遥控功能的产品在定货时须在型号中加 "L"。如HDC100-48S12 为正逻辑遥控功能,要定负逻辑遥控功能的产品 型号为HDC100-L48S12。型号中有后缀 "-T"的产品其输出电压调节方式不同。

2、-注: HDC120-48S09 的输出电压可以下调到6V。

(Notes: 1, The standard product features Remote on/off Positive Logic, the Negative Logic is optional by adding the big letter `L` to the Model number, for example, HDC100 - L48S12 model number indicates Negative Logic, but HDC100 - 48S12 indicates Positive Logic. Model Numbers with suffix'-T' have different output voltage adjustment.

2,\*note: Output voltage of HDC120 - 48S09 model number can be adjusted to 6V.)

带"-T"

## 尺寸单位是mm(inches); All Dimensions in mm (inches)

引脚定义(Pin Definition)				
1	+Vin	6	-S	
2	Rem	7	Trim	
3	FG	8	+S	
4	-Vin	9	+Vout	
5	-Vout			
	未注公差按下表			
(Tolerances Unless Otherwise Specified)				
mm			inches	
	x±0.5		.xx±0.02	
	xx±0.13		.xxx±0.005	

输出电压调节(Output Voltage Trim)

