

15-20W

DHC Serise

DC/DC

特性 Features

- 输入C型滤波 C type input filter
- 满负荷效率可达89% Full load efficiency up to 89%
- 高可靠性, 长寿命设计 Design for high reliability, long lifetime
- 优异的限流保护, 电源可连续处于短路状态 Excellent current limiting protection, can continually operate in short circuit state
- 体积小, 单双路输出 Small form factor, single output
- 高功率密度 High power density
- 引出脚功能兼容 Pin function compatible



输入特性 Input Characteristic

电压范围 (Voltage Range)	12 VDC(额定值)	9-18 VDC
	24 VDC(额定值)	18-36 VDC
	48 VDC(额定值)	36-72 VDC
	110 VDC(额定值)	80-180 VDC
反压保护 (Reverse Protection)	应用时外接熔丝 (Fuse Outside)	

输出特性 Output Characteristic

电压精度 (Voltage Set-point Accuracy)	±1%
输出电压调整范围 (Output Voltage Range)	±10%
电压调整率(主路) (Line Regulation<main>)	±0.2%
负载调整率(主路) (Load Regulation<main>)	±0.4%
交叉调节率 (主路30%-100%负载, 副路80%负载) (Cross Regulation)	±3%
温度变化率 (Temperature Coefficient)	±0.01%/°C
电流限制点 (Output Current Limiting)	120%(Typ)
响应速度 (Dynamic Response)	400us
输出电流 (Output Current)	0.1-8A 任选
输出电压 (Output Voltage)	1.8-48V
功率 (Power)	15-20W

- 注: 交叉调节率仅指多路输出的电源

Note: Cross regulation is only refer to Multi-output.

一般特性 General Characteristic

工作频率 (Switching Frequency)	160-200 KHz
隔离电阻 (Isolation Resistance)	500 MΩ
MTBF	>500000 h
绝缘强度 (Isolation Voltage)	
输入-输出 (Input-Output)	>1500 VDC
输入-外壳 (Input-Case)	>1050 VDC
输出-外壳 (Output-Case)	>500 VDC
主路-副路 (Main-Aux)	>500 VDC
环境特性 (Environmental Characteristics)	
工作壳温 (Case Temperature)	(工业品) -25 - +85°C (Industry) (军 I) -40 - +85°C (Military I) (军 II) -55 - +85°C (Military II)
存储温度 (Storage Temperature)	(工业品) -45 - +85°C (Industry) (军品) -55 - +85°C (Military)

热阻特性 Heat Characteristic

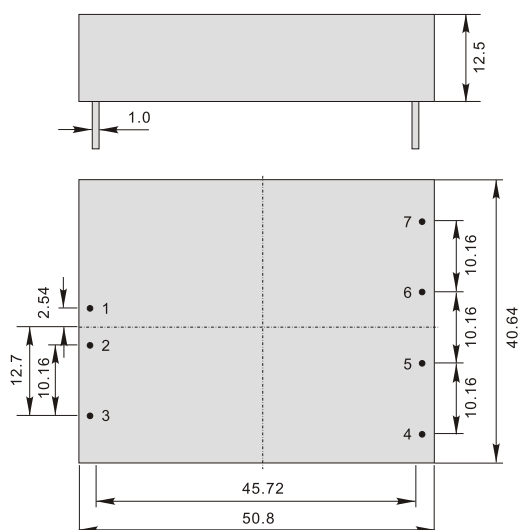
冷却方式 (Cooling)	热阻 (Thermal Resistance)
自然风冷 (Breeze of Nature)	12.45°C/W
0.5M/S	10.37°C/W
1M/S	7.73°C/W
1.5M/S	5.63°C/W
2M/S	4.66°C/W

型号 Models							
	型号 Models	输入电压 (Vdc) Input voltage	输入电压 (范围) Input voltage <Range>	输出电压 (Vdc) Output voltage	输出电流(A) Output current	纹波pk-pk(mv) Ripple and noise	效率 (Typ) Efficiency
单 路 (simplex)	HDC7.5-12S2.5	12	9-18	2.5	3	20	71%
	HDC13.2-12S3.3	12	9-18	3.3	4	33	75%
	HDC15-12S05	12	9-18	5.0	3	30	82%
	HDC7.8-24S2.5	24	18-36	2.5	3	25	73%
	HDC13.2-24S3.3	24	18-36	3.3	4	33	78%
	HDC15-24S05	24	18-36	5.0	3	30	82%
	HDC7.5-48S2.5	48	36-72	2.5	3	25	75%
	HDC13.2-48S3.3	48	36-72	3.3	4	33	79%
	HDC15-48S05	48	36-72	5.0	3	30	82%
	HDC15-110S24	110	80-180	24	0.63	200	85%
双 路 (econoscillator)	HDC10-12D2.5	12	9-18	±2.5	±2	25	78%
	HDC15-12D05	12	9-18	±5	±1.5	30	80%
	HDC15-12D15	12	9-18	±15	±0.5	100	86%
	HDC13.2-24D3.3	24	18-36	±3.3	±2	33	79%
	HDC15-24D05	24	18-36	±5	±1.5	30	80%
	HDC15-24D05+12	24	18-36	5+12	2/0.5	30/80	86%
	HDC13.2-48D3.3	48	36-72	±3.3	±2	33	80%
	HDC15-48D05	48	36-72	±5	±1.5	30	85%
	HDC15-48D15	48	36-72	±15	±0.5	100	89%
	HDC15-110D05	110	80-180	±5	±1.5	30	85%
HDC20-110D12	110	80-180	±12	±0.83	80	86%	
HDC20-110D24	110	80-180	±24	±0.4	200	86%	

■说明：仅列出典型型号，其他型号，请确定功率、输入电压及输出电压，致电我公司。

Only typical models listed, if you need other model, please conform the power, input voltage and output voltage, then phone us.

外型尺寸图与引脚定义 Mechanical drawing and pin definition



单位 (Unit):mm

引脚 Pin	单路 Sing	双路 DOU
1	+Vin	+Vin
2	-Vin	-Vin
3	REM	REM
4	TRIM	TRIM
5	-V0	GND
6	+V0	+V01
7	NC	+V02