

CFDNR30 Series

DC-DC module converter



典型性能 FEATURES

- ◆ 30瓦功率输出 (30 Watts of Output Power)
- ◆ 宽电压输入 (4:1 Wide Input)
- ◆ 输入输出隔离 (Isolated Output)
- ◆ 长期短路保护, 自恢复 (Short Circuit Protection, Automatic Recovery)
- ◆ 高转换效率, 高可靠性

电气特性

ELECTRICAL SPECIFICATIONS

输入特性Input	Min	Nom	Max	Notes
输入电压Vdc	9	24	36	
Input Voltage	18	48	75	
	40	110	160	
遥控		On		CNT悬空或接TTL高电平
Control		Off		CNT与-Vin相连

输出特性Output

输出电压精度		±1%	Vo1
Setpoint Accuracy		±3%	Vo2
电压调节			
Trim Range	±10% Vo1		Vo2跟踪 Vo1
源效应		±0.2%	Vo1
Line Regulation		±1.5%	Vo2
负载效应		±0.5%	Vo1
Load Regulation		±4%	Vo2
动态响应		3%Vo Pk deviation	50~75% load
Dynamic Response		200µs settling time	50~25% load
纹波与噪声		50mVp-p	Vo≤5Vdc
Ripple and Noise		100mVp-p	Other
温度系数			
Temperature Coefficient	±0.02%/°C		

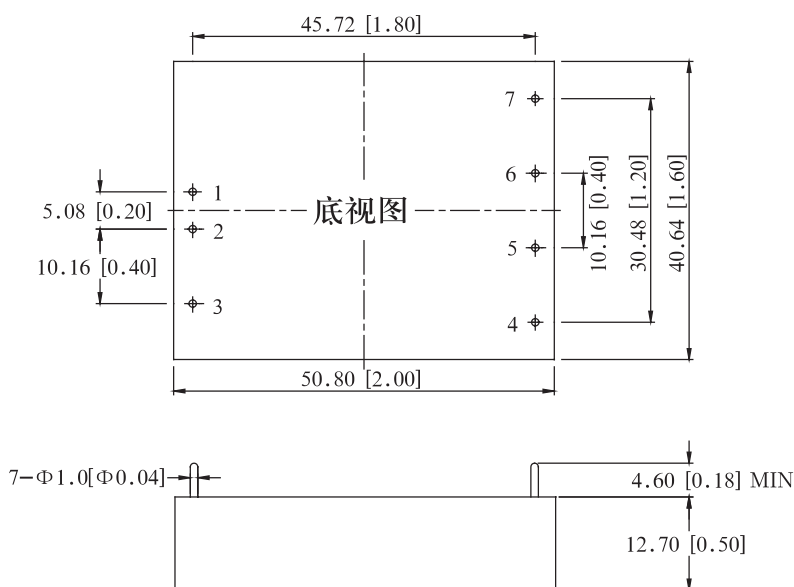
综合特性General

隔离电压		1500Vdc/1min/0.5mA	Input-Output
Isolation Voltage			
开关频率		400KHz	
Switching Frequency		200KHz	24V输出
MTBF		2×10 ⁶ H	Bellcore TR332,25°C
工作环境温度	-40°C	+70°C	满载不降额
Storage Temperature			
储存温度	-55°C	+125°C	
Storage Temperature			
相对湿度	10%	90%	
Relative Humidity			
短路保护	短路自恢复		
Short-Circuit Protection	Continuous, Automatic Recovery		

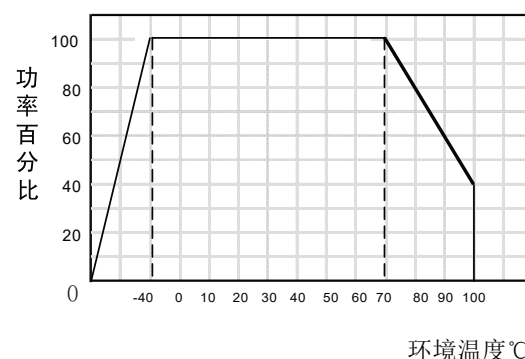
	型号 Model	输入电压(Vdc) Input Voltage	输出电压(Vdc) Output Voltage	输出电流(A) Output Current	效率 Efficiency
			Vo1/Vo2	Io1/Io2	
30W单路	CFDNR30-24S03	9~36	3.3	9	86%
	CFDNR30-24S05	9~36	5.05	6	88%
	CFDNR30-24S12	9~36	12	2.5	88%
	CFDNR30-24S15	9~36	15	2	90%
	CFDNR30-24S18	9~36	18	1.66	90%
	CFDNR30-24S24	9~36	24	1.25	90%
	CFDNR30-24S48	9~36	48	0.625	90%
	CFDNR30-48S03	18~75	3.3	9	86%
	CFDNR30-48S05	18~75	5.05	6	88%
	CFDNR30-48S12	18~75	12	2.5	88%
	CFDNR30-48S15	18~75	15	2	90%
	CFDNR30-48S24	18~75	24	1.25	90%
	CFDNR30-48S48	18~75	48	0.625	90%
30W双路	CFDNR30-24D05	9~36	+5.05/-5.05	+3/-3	86%
	CFDNR30-24D12	9~36	+12/-12	+1.25/-1.25	88%
	CFDNR30-24D15	9~36	+15/-15	+1/-1	88%
	CFDNR30-24D18	9~36	+18/-18	+0.83/-0.83	88%
	CFDNR30-48D05	18~75	+5.05/-5.05	+3/-3	86%
	CFDNR30-48D12	18~75	+12/-12	+1.25/-1.25	90%
	CFDNR30-48D15	18~75	+15/-15	+1/-1	90%

机械图及管脚说明

(MECHANICAL CHART、PINS) (Unit: mm/ inch)



温度 / 功率降额曲线



管脚 Pin	1	2	3	4	5	6	7
单路 Single	+Vin	- Vin	CNT	TRIM	-Vo	+Vo	NP
双路 Dual	+Vin	- Vin	CNT	TRIM	-Vo2	COM	+Vo1