FDR-500 ~ 700W Series

特 点

- ⋆ 外形尺寸：116.8 × 61.0 × 12.7 mm
- ⋆ 工业 标准全砖封装和引脚
- ⋆ 高效率、高功率密度
- ⋆ 基板工作温度 100℃

Features

- ⋆ Size: 4.60 × 2.40 × 0.50 inch
- ⋆ Industry Standard Full-Brick Package and Footprint
- ⋆ High Efficiency, High Power Density
- ⋆ 100℃ Baseplate Operation

输入特性(Input)

输入特性(Input)			注释(Notes and Conditions)
输入电压范围(Input Voltage Range)		36~76Vdc	80Vdc Max
遥控功能(Remote On/Off Function)			
负逻辑(Negative Logic)	开启(On)	$1mA \leqslant I_{ON/OFF} \leqslant 5mA$	+ON/OFF与-ON/OFF之间
	关闭(Off)	悬空(Open Circuit)	+ON/OFF与-ON/OFF之间

输出特性(Output)

输出特性(Output)		注释(Notes and Conditions)
输出电压精度(Voltage Set-Point Accuracy)	± 1%	Vinom and Ionom
输出电压调节范围(Output Voltage Trim Range)	- 40%~ + 10%	
源效应(Line Regulation)	± 0.2%Vo	Vimin~Vimax, Ionom
负载效应(Load Regulation)	± 0.5%Vo	10%~100%Ionom, Vinom
输出过压保护(Output Overvoltage Protection)	115%~135%Vo	
输出过流保护点(Current Limit Threshold Range)	105%~140%Io	
短路保护(Short-Circuit Protection)	连续可恢复	
	(Continuous,Automatic Recovery)	
IOG信号(IOG Signal)	模块正常工作信号，此端呈低电平状态，集电极开路输出	
	(Converter Operation Good Signal,Condition of Low Level,Open Collector Output)	
PC信号(PC Signal)	并联运行时，互联 PC 端可实现均流	
	(By Connecting the PC Terminal,Output Current Balance Operation)	
AUX端子(AUX Terminal)	辅助电源输出端子，7~10Vdc	
	(Auxiliary Power Supply for External Signal,7~10Vdc)	
瞬态响应(Dynamic Response)		
过冲幅度(Peak Deviation)	± 5%Vo	25%-50%-25% of Ionom
恢复时间(Settling Time)	200 μ s	and 50%-75%-50% of Ionom

一般特性(General)

一般特性(General)		注释(Notes and Conditions)
温度系数(Temperature Coefficient)	± 0.02%/℃	
隔离电压(Isolation Voltage)		
输入与输出(Input-Output)	1500Vdc 1min	
输入与外壳(Input-Case)	1500Vdc 1min	
输出与外壳(Output-Case)	500Vdc 1min	
工作基板温度(Operating Baseplate Temperature)	- 40℃~ + 100℃	
贮存温度(Storage Temperature)	- 40℃~ + 100℃	
冷却方式(Cooling)	加装散热器或强制风冷	Attach Heatsink or Forced Convection
过温保护(Thermal Shutdown Range)	+ 100℃~ + 110℃	基板温度(Baseplate Temperature)
平均故障间隔时间(MTBF)	2×10^5 h	MIL-HDBK-217

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℃baseplate temperature unless otherwise stated.

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型号列表(Models)

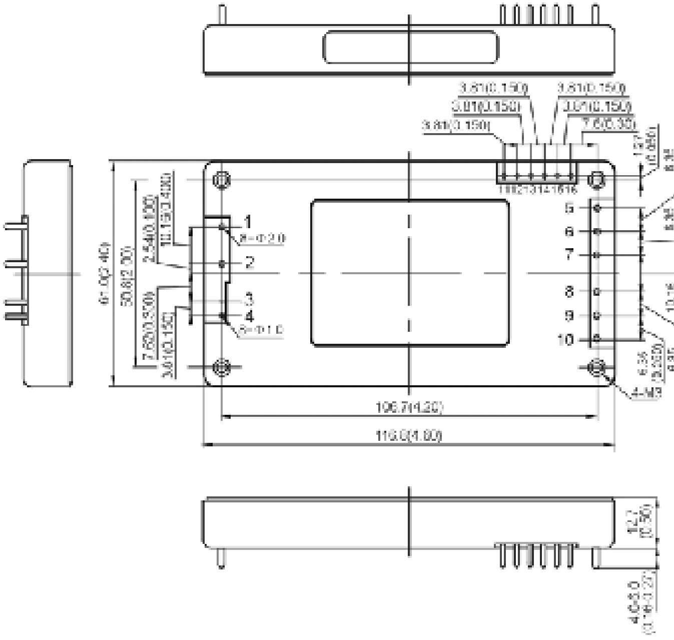
产品型号 (Model Number)	标称输入电压 (Input Voltage) Vdc	标称输出电压 (Output Voltage) Vdc	标称负载 (Output Current) A	额定输出功率 (Output Power) W	效率 (Efficiency) %	输出杂音电压峰峰值 (Ripple and Noise) mVp-p
FDR-L50028SC/S	48	28.0	18.0	504	88	280
FDR-L60028SC/S	48	28.0	21.5	602	89	280
FDR-L60028SC	48	28.0	21.5	602	89	280
FDR-L70028SC/S	48	28.0	25	700	89	280

注:带后缀“/S”的型号产品没有 PC 均流和 AUX 端子，其 11 和 13 引脚为空脚。

(The Model Numbers with suffix “/S” have not PC and AUX Terminal,the Pin of 11 and 13 is null.)

安装尺寸(Mechanical Drawing)

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



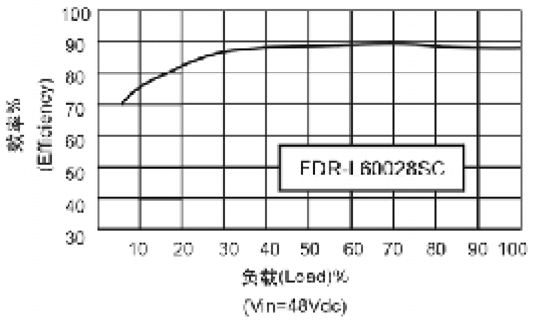
引脚定义(Pin Definition)	
引脚(Pin)	单路(Single)
1	-Vin
2	+Vin
3	-ON/OFF
4	+ON/OFF
5	-Vout
6	-Vout
7	-Vout
8	+Vout
9	+Vout
10	+Vout
11	AUX(NP)*
12	IOG
13	PC(NP)*
14	Trim
15	+S
16	-S

*:带后缀“/S”的型号为 NP 引脚

(For Model Numbers with suffix “/S”,the Pin is NP)

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

效率负载曲线(Curve of Efficiency vs. Load)



输出电压调节(Output Voltage Trim)