

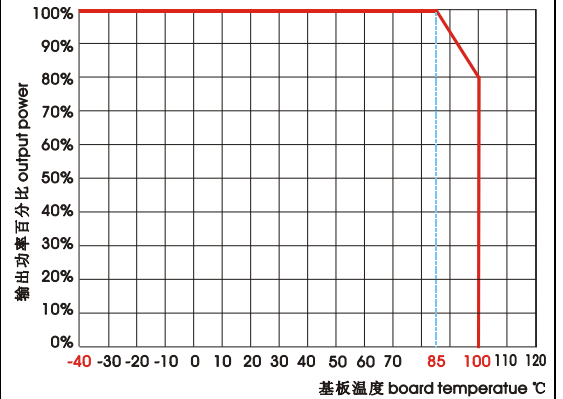
WD350-700 Series

DC/DC 全砖 full brick 350-700W

Typical performance

- ◆ Wide Input voltage range (2:1)
- ◆ Typical Efficiency 92%
- ◆ Switching frequency: 300KHz ± 30 KHz
- ◆ Over current/Short circuit protection,Self-furbish
- ◆ Input-output isolate (1500Vdc)
- ◆ PCB Board in-line type installs
- ◆ High power density

Temperature graph



Technology parameter (Test condition : Unless otherwise indicated,specifications apply over all operating input voltage,resistive load,and temperature conditions)

Input	Min	Nom	Max	Notes
VDC Input voltage	36	48	72	2:1
Remote (Current control)		ON	Current of Remote (Input Remote Positive and negative Pin at the same time)	(1-5mA)
		OFF	Vacant or No current	(0mA)
Input undervoltage protection	Lower than the low-input voltage protection , Self-furbish			

Output

Voltage accuracy		Vo1	±1.0%
Line regulation	Nominal Load, full voltage range	Vo1	±0.2%
Load regulation	20% ~ 100% rated voltage	Vo1	±0.5%
Ripple and noise	20MHz BM (Full Load)		≤280mVp-p;
Dynamic response	25% Nominal load step change(increase or reduce)	ΔVo1/Δt	±3.0/200us%

Voltage adjust	Nominal output	TRIM	-40%~+20%(adjust)
Turn-on delay time	Typical value		≤200mS

General

Efficiency	Nominal input, Full load		92%(Typical)
Switching frequency		300KHz (Typical)	Max 330KHz
Board temperature		Free air	-40℃ ~ +100℃
Storage temperature			-50℃ ~ +125℃
Relative humidity			10%~90%
case material			aluminum baseplate
Isolation Voltage	Input-output 1500Vdc; input/output-baseplate 500Vdc		
(MTBF)	3X10 ⁵ Hrs		

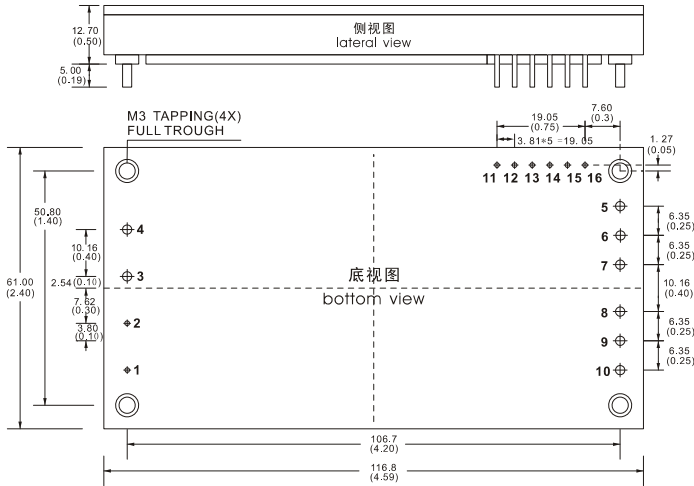
Product Nomination Method

Example	W D 500 – 48 S 28 ① ② ③ ④ ⑤ ⑥		
①	Wide range voltage input: 2:1	④	Input voltage
②	Power convert mode D (DC-DC)	⑤	S: Single output
③	Output Watt	⑥	Output voltage

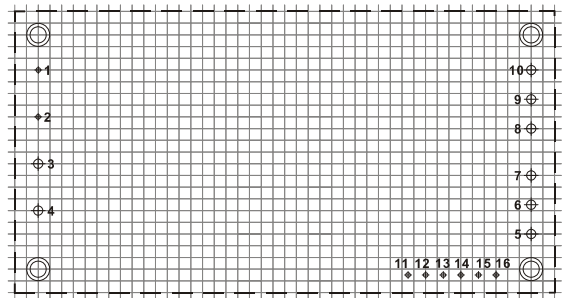
Typical product tabulates

TYPE	Input voltage range	Output voltage / current					
		VO1		VO2		VO3	
		V	A	V	A	V	A
WD350-□S28	48 V (36~72V)	28V	12.5A				
WD500-□S28		28V	17.8A				
WD600-□S28		28V	21.4 A				
WD700-□S28		28V	25A				

Mechanical Data

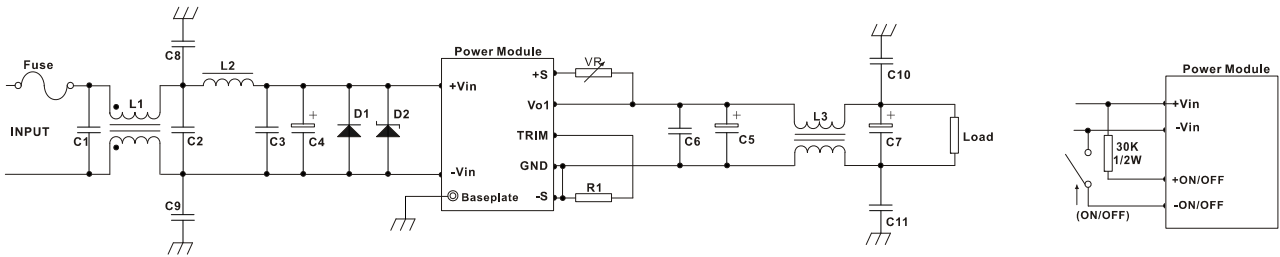


单位: mm
印刷板俯视图
栅格间距: 2.54mm (0.1 inch)



注: 1、2管脚针为1mm, 其余为2mm
Note: 1, 2pin ϕ 1mm, others 2mm

典型应用



推荐外围电路元器件

- 1、Fuse为30A/250V的保险丝。
- 2、C1、C2、C3为1 μ F；C6为10 μ F的高频瓷片电容或聚酯电容（注意耐压的选择）
- 3、C4为470 μ F、100Vdc；C5、C7为470 μ F/50Vdc的铝电解电容。
- 4、C8、C9、C10、C11为0.15 μ F/1500Vdc的安规Y电容。
- 5、L1为输入共模滤波电感：1mH。
- 6、L2为输入差模滤波电感：5.6 μ H。
- 7、D1为防反压二极管，符合指标100V/30A。
- 8、D2为瞬态吸收二极管，选型：P6KE75A。
- 9、L3为输出共模电感或EMI滤波器。
- 10、VR为50K Ω 电位器，R1为6.8K Ω 电阻。
- 11、PCB布线时，输出铜线应尽可能宽，且线间距不宜过大，输出滤波电路应尽可能与模块电源靠近，以降低干扰。
- 12、客户可根据自己的实际情况，对输入输出滤波器的参数进行测试。

电流型遥控端使用说明

Mechanical Data

Package Code	L x W x H (unit): mm	Package No
Full brick	116.84 x 61.0 x 12.70	460240DC

Pin Assignments

Pin No	1	2	3	4	5:6:7	8:9:10	11	12	13	14
Single	+on/off	-on/off	+Vin	-Vin	-Vo	+Vo	AUX	I0G	PC	TRIM
Pin No	15	16								
Single	+S	-S								

*Note: The power modules such as the definition of the pin does not match with the data sheet ,please refer to the actual item.