

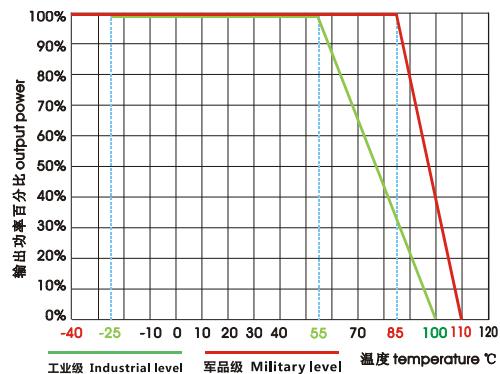


DC/DC 宽压输入 25-30W (DC/DC wide input 25-30W)

Typical performance

- ◆ Wide Input voltage range (2:1 or 4:1)
- ◆ Typical Efficiency 85%
- ◆ Switching frequency: 300KHz ± 30 KHz
- ◆ Over current/Short circuit protection, Self-furbish
- ◆ Input-output isolate (500/1000/1500/2000Vdc)
- ◆ PCB Board in-line type installs
- ◆ Metal case, Low Output Ripple

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
Input voltage	9	12	18	2:1
	18	24	36	2:1
	36	48	72	2:1
	72	110	144	2:1
	10	12	36	4:1
	18	48	72	4:1
Remote (Positive logic control)		ON	High level or vacant	3.5Vdc~+Vin
		OFF	Low level or connect ground	≤0.3Vdc
Input undervoltage protection	Lower than the low-input voltage protection, Self-furbish			

Output

Voltage accuracy		Vo1;Vo2,Vo3	±1.0%, ±2.0%
Line regulation	Nominal Load, full voltage range	Vo1;Vo2,Vo3	±0.2%, ±1.5%
Load regulation	20% ~ 100% rated voltage	Vo1;Vo2,Vo3	±0.5%, ±4.0%
Ripple and noise	20MHz BM (Full Load) Vo≤5.0V, ≤50mVp-p; Vo≥48V, ≤180mVp-p; Other, ≤100mVp-p;		

Dynamic response	25% Nominal load step change(increase or reduce)	$\Delta V_o / \Delta t$	$\pm 4.0/500\mu s\%$
Voltage adjust	Nominal output	TRIM	$\pm 10\%$ (adjust)
Turn-on delay time	Typical value		$\leq 200\text{ms}$

General

Efficiency	Nominal input, Full load	$V_o \leq 5.0\text{V}, 80\%$ (Typical)	$V_o > 5.0\text{V}, 85\%$ (Typical)
Switching frequency		300KHz (Typical)	Max 330KHz
Operating temperature	Free air	Industrial level	$-25^\circ\text{C} \sim +55^\circ\text{C}$
		Military level	$-40^\circ\text{C} \sim +85^\circ\text{C}$
Storage temperature		Industrial level	$-40^\circ\text{C} \sim +105^\circ\text{C}$
		Military level	$-55^\circ\text{C} \sim +120^\circ\text{C}$
Max case temperature		Industrial level	$+100^\circ\text{C}$
		Military level	$+110^\circ\text{C}$
Relative humidity			10%~90%
case material			Metal case
Isolation Voltage	500/1000/1500/2000 Vdc $\leq 0.5\text{mA}/1\text{min}, 500\text{Vdc} \leq 0.5\text{mA}/1\text{min}$		
(MTBF)	$2 \times 10^5\text{Hrs}$		

Product Nomination Method

Example	W D 25 - 48 S 05 J		
	① ② ③ ④ ⑤ ⑥ ⑦		
①	Wide range voltage input: 2:1	⑥	Output voltage
②	Power convert mode D (DC-DC)	⑦	J : Indicate Military level, Non: Indicate Industrial level
③	Output Watt		G : Indicate input output no isolate
④	Input voltage		I : Indicate dual output isolate
⑤	S: Single output D: dual output T: Triple output		W : Indicate wide range voltage input: 4:1

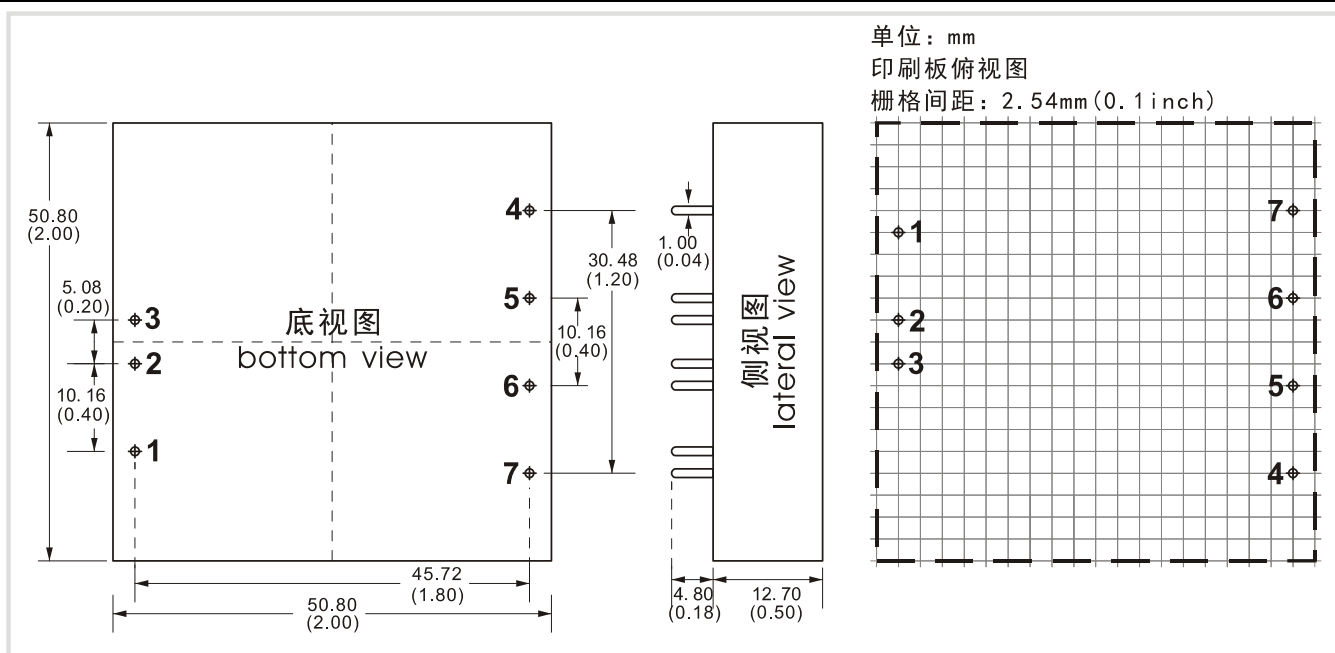
Typical product tabulates

TYPE	Input voltage range	Output voltage / current					
		VO1		VO2		VO3	
		V	mA	V	mA	V	mA
WD25-□S3V3	12 V (9~18V)	3.3V	5000mA				
WD25-□S05	24V (18~36V)	5V	5000mA				
WD25-□S09	48V (36~72V)	9V	2770mA				
WD25-□S12	110V (72~144V)	12V	2080mA				

WD25-□S15		15V	1660mA				
WD25-□S24		24V	1040mA				
WD25-□D05		+5V	2500 mA	-5V	2500 mA		
WD25-□D09		+9V	1390 mA	-9V	1390 mA		
WD25-□D12		+12V	1040 mA	-12V	1040 mA		
WD25-□D15		+15V	830 mA	-15V	830 mA		
WD25-□D24		+24V	520 mA	-24V	520 mA		
WD25-□T5-12		+5V	3500 mA	+12V	250 mA	-12V	250 mA
WD25-□T5-15		+5V	3500 mA	+15V	200 mA	-15V	200 mA
WD30-□S05		5V	6000mA				
WD30-□S12		12V	2500mA				
WD30-□S15		15V	2000mA				
WD30-□S24		24V	1250mA				
WD30-□D05		+5V	3000mA	-5V	3000mA		
WD30-□D12		+12V	1250mA	-12V	1250mA		

□Shows the nominal value of input voltage, due to space limitations ,the above list is only for some products, If demand for products out of above list, please contact the our sales department.

Mechanical Data



Mechanical Data

Package Code	L x W x H (unit): mm	Package No
	50.80 x 50.80 x 12.70	200200DC

Pin Assignments

Pin No	1	2	3	4	5	6	7			
Single	REM	-Vin	+Vin	NP	+Vout	GND	TRIM			
Dual	REM	-Vin	+Vin	+Vout1	COM	-Vout2	TRIM			

Dual Isolate	REM	-Vin	+Vin	+Vout1	GND1	+Vout2	GND2			
Triple	REM	-Vin	+Vin	+Vout3	+Vout1	COM	-Vout2			

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