



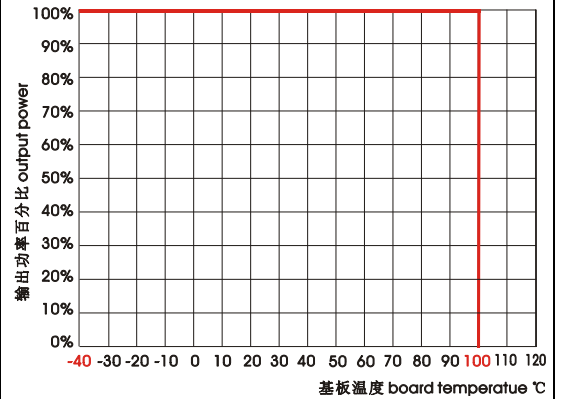
WD50-150 Series

DC/DC 半砖 half brick 50-150W

Typical performance

- ◆ Wide Input voltage range (2:1)
- ◆ Typical Efficiency 90%
- ◆ Switching frequency: 300KHz ± 30 KHz
- ◆ Over current/Short circuit protection, Self-furbish
- ◆ Input-output isolate (1500Vdc)
- ◆ 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	18	24	36	2:1
	36	48	72	2:1
	72	110	144	2:1
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	±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) Vo≤5.0V, ≤50mVp-p; Vo≥48V, ≤180mVp-p; Other, ≤100mVp-p;		

Dynamic response	25% Nominal load step change(increase or reduce)	$\Delta V_o / \Delta t$	$\pm 3.0 / 200 \mu s$
Voltage adjust	Nominal output	TRIM	$\pm 10\%$ (adjust)
Turn-on delay time	Typical value		$\leq 200 \text{ms}$

General

Efficiency	Nominal input, Full load	$V_o \leq 5.0 \text{V}$, 89%(Typical)	$V_o > 5.0 \text{V}$, 90%(Typical)
Switching frequency		300KHz (Typical)	Max 330KHz
Board temperature		Free air	$-40^\circ \text{C} \sim +100^\circ \text{C}$
Storage temperature			$-50^\circ \text{C} \sim +125^\circ \text{C}$
Relative humidity			10%~90%
case material			aluminum baseplate
Isolation Voltage	Input-output 1500Vdc; input/output-baseplate 500Vdc		
(MTBF)	$3 \times 10^5 \text{Hrs}$		

Product Nomination Method

Example	W D 150 – 48 S 12 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

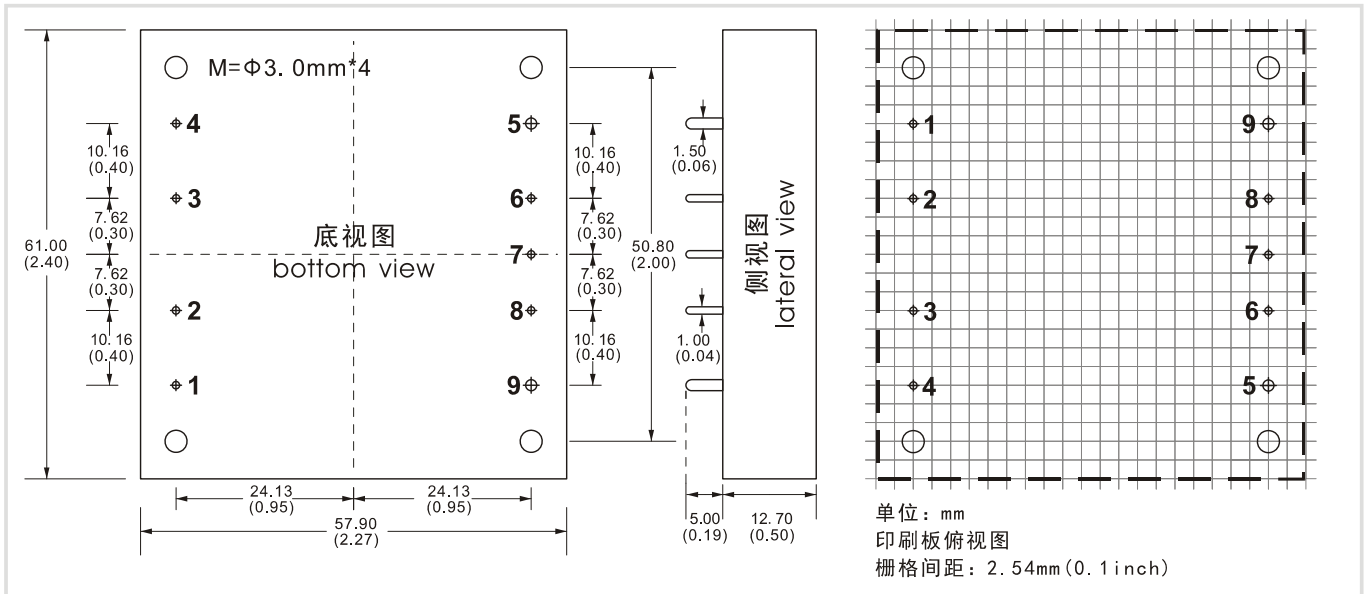
Typical product tabulates

TYPE	Input voltage range	Output voltage / current					
		VO1		VO2		VO3	
		V	A	V	A	V	A
WD50-□S05	24 V (18~36V) 48 V (36~72V) 110 V (72~144V)	5V	10A				
WD50-□S12		12V	4.2A				
WD50-□S24		24V	2.1A				
WD75-□S05		5V	15A				
WD75-□S12		12V	6.25A				
WD75-□S24		24V	3.12A				

WD100-□S05		5V	20A				
WD100-□S12		12V	8.3A				
WD100-□S24		24V	4.2A				
WD150-□S05		5V	30A				
WD150-□S12		12V	12.5 A				
WD150-□S24		24V	6.25A				

□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
Half Brick	61.00 x 57.90 x 12.70	228240DC

Pin Assignments

Pin No	1	2	3	4	5	6	7	8	9
Single	+Vin	REM	CASE	-Vin	GND	-S	TRIM	+S	+Vout

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