



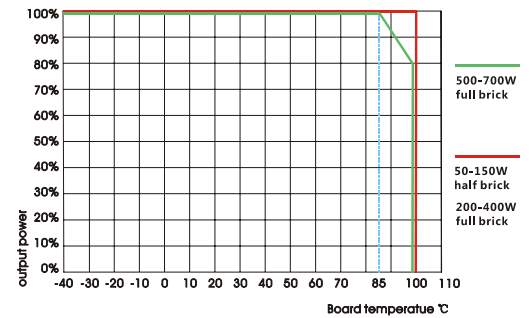
WD50-150 Series

DC/DC 半砖 half brick 50-150W

Typical performance

- ⊙ Wide Input voltage range (2:1)
- ⊙ Typical Efficiency: 90%
- ⊙ Switching frequency: 300KHz ± 30 KHz
- ⊙ Overcurrent/Short circuit protection, Self-furbish
- ⊙ Input-output isolate (1500Vdc)
- ⊙ PCB Board in-line type installs
- ⊙ High power density

Temperature graph



Technology parameter Test condition: General Nominal Line, $T_c=25^\circ\text{C}$, Rated resistant load unless other wise specified

Input Features	Min	Nom	Max	Notes
Input voltage (Vdc)	18	24	36	W 2:1 only for half brick
	36	48	72	W 2:1
	72	110	144	W 2:1 only for half brick
Turn on voltage (Half brick)	3.5Vdc		+Vin	converter guaranteed on when REM pin is left open
Turn off voltage (Half brick)	0		0.3Vdc	
Remote ON/OFF(Full brick)			on	(1-5mA)
			off	(0mA)

Under voltage protect

Output Features

Voltage accuracy		Vo1	±1.0%
Line regulation		Vo1	±0.2%
Load regulation	20% ~ 100%	Vo1	±0.5%
Ripple and noise	20MHz BM $V_o \leq 5.0V, \leq 50mVp-p$; $V_o \geq 48V, \leq 180mVp-p$; Other, $\leq 100mVp-p$;		
Dynamic response	25%	$\Delta V_o1/\Delta t$	±3.0/200us%

Voltage adjust(Half brick)	Standard output voltage	TRIM	±10% (adjustable)
Voltage adjust(Full brick)	Standard output voltage	TRIM	-40%~+20% (adjustable)
Start delay time	typical		≤200mS

General Features

Efficiency	Normal input , full load	Vo≤5.0V,86% typical	Vo>5.0V, 90% typical
Switching frequency		300KHz typical	Max 330KHz
Board temperature		Free air	-40℃ ~ +100℃
Storage temperature			-50℃ ~ +125℃
Relative humidity			10%~90%
case material		aluminium baseplate	
Isolation Voltage	Input-output 1500Vdc; input/output-baseplate 500Vdc		
MTBF	3X10 ⁵ Hrs		

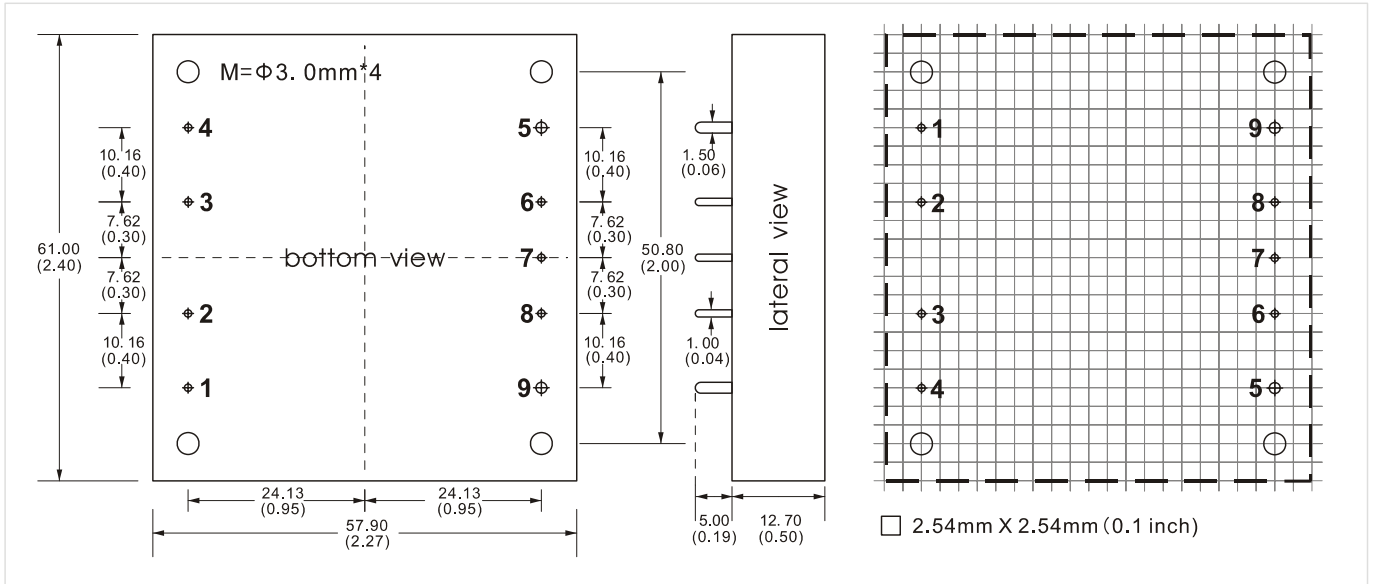
Product Nomination Method

example	W D 200 - 48 S 12 ① ② ③ ④ ⑤ ⑥		
①	Wide input voltage: 2: 1	④	Normal input voltage
②	Power adaptation mode: D (DC-DC)	⑤	S=Single route output
③	Output power(W)	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				
WD100-□S12		12V	8.3A				
WD100-□S24		24V	4.2A				
WD150-□S05		5V	30A				
WD150-□S12		12V	12.5A				
WD150-□S24		24V	6.25A				

Mechanical Data



Mechanical Data

Packing	L x W x H : mm	Packing No.
Half Brick	61.00 x 57.90 x 12.70	228240DC

Pin Assignments

PIN	1	2	3	4	5	6	7	8	9
S	+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 hand book, please refer to the actual item.