

### Typical performance

- ◆ Wide Input voltage range (2:1)
- ◆ Typical Efficiency 87%
- ◆ Switching frequency: 300KHz
- ◆ Over current/Short circuit protection, Self-furbish
- ◆ Input-output isolate
- ◆ Board in-line type installs
- ◆ Metal case, Low Output Ripple



### Technology parameter

Test condition: General Nominal Line, Tc=25 °C, Rated resistant load unless other wise specified.

Input	Min(v)	Nom(v)	Max(v)	Notes
Vdc Input voltage	9	12	18	2:1
	18	24	36	2:1
	36	48	72	2:1
	72	110	144	2:1
Remote ON/OFF(Low level remote)	ON	High level or vacant-Turn on		3.5Vdc ~ +Vin
	OFF	Low level or connect ground-Turn off		≤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%	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	ΔVo1/Δt	±4.0/500μ s%
Voltage adjust	Nominal output	TRIM	±10% Adjustable
Turn-on delay time	Typical value		≤200mS

### General

Efficiency	Nominal input, Full load	$V_o \leq 5.0V, 82\%$ Typical	$V_o > 5.0V, 87\%$ Typical
Switching frequency		300KHz Typical	MAX 330KHz
Operating temperature	Free air	Industrial Level	-25°C ~ +55°C
		Military Level	-40°C ~ +85°C
Storage temperature		Industrial Level	-40°C ~ +105°C
		Military Level	-55°C ~ +120°C
Max case temperature		Industrial Level	+100°C
		Military Level	+110°C
Relative humidity			10%~90%
Case material	Metal case		
Isolation Voltage	Input-output 1500 Vdc $\leq$ 0.5mA/1min; Input-case 500Vdc $\leq$ 0.5mA / 1min		
MTBF	2X10 <sup>5</sup> Hrs		

### Typical product tabulates

TYPE	Input voltage range	Output voltage / current					
		VO1		VO2		VO3	
		V	mA	V	mA	V	mA
WD150-□S05P1	12 V (9~18V) 250W 内 24V (18~36V) 48V (36~72V) 110V (72~144V)	5V	30000mA				
WD150-□S12P1		12V	12500mA				
WD150-□S24P1		24V	6250mA				
WD150-□S48P1		48V	3125mA				
WD200-□S05P1		5V	40000mA				
WD200-□S12P1		12V	16600mA				
WD200-□S24P1		24V	8330mA				
WD200-□S48P1		48V	4160mA				
WD200-□S12P1		12V	20800mA				
WD200-□S24P1		24V	10400mA				
WD200-□S48P1		48V	5200mA				
WD300-□S12P1		12V	25000mA				
WD300-□S24P1		24V	12500mA				
WD300-□S48P1		48V	6250mA				
WD350-□S24P1		24V	14580mA				
WD350-□S48P1		48V	7290mA				

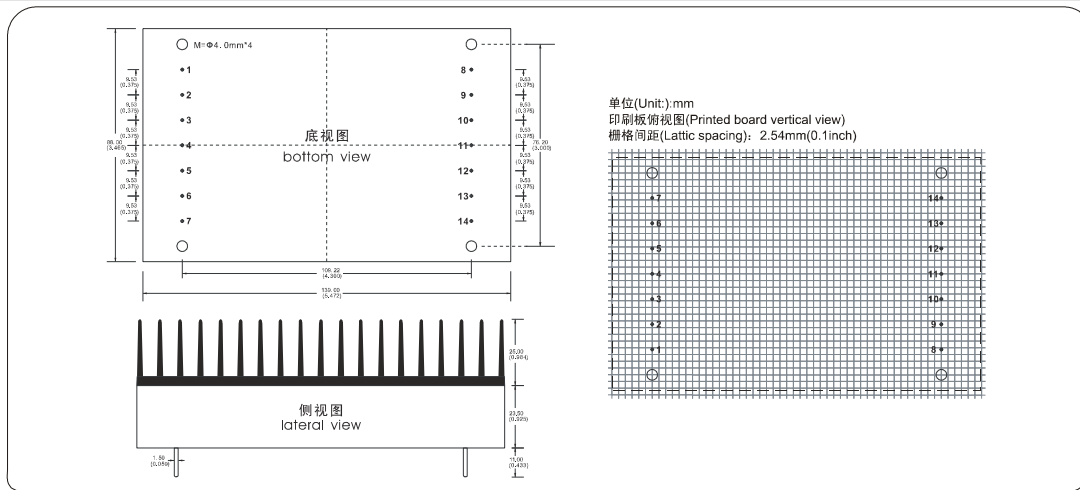
WD400-□S48P1

48V

8330mA

□ Shows the nominal value of input voltage, due to space limitations ,the above list is only for some products, If other than a list of products, please contact the Company's sales department.

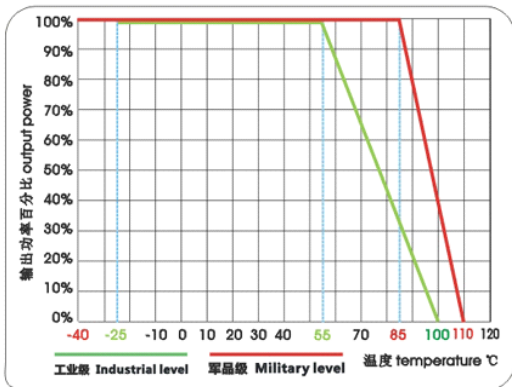
**Mechanical Data**



**Mechanical Data**

Packing Series No	L x W x H	
P1	139.00 × 88.00 × 23.50mm	5.472 × 3.465 × 0.925inch

**TYPICAL TEMPERATURE CURVE**



**Pin Assignments**

Single	1	2:3	4:5	6	7	8:9	10:11	12	13	14
	NP	-Vin	+Vin	REM	CASE	GND	+Vout	-S	TRIM	+S

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