



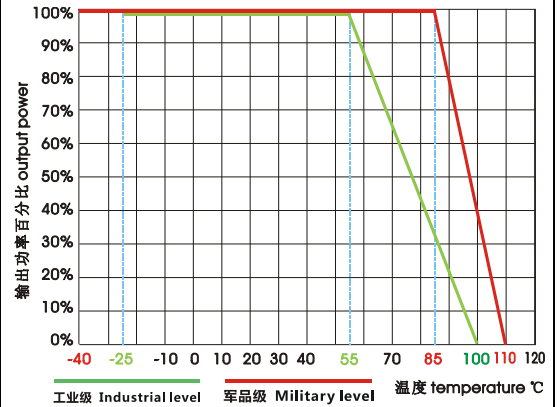
WD30-75 Series

DC/DC 宽压输入 30-75W (DC/DC wide input 30-75W)

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	±1.0%, ±2.0%
Line regulation	Nominal Load, full voltage range	Vo1; Vo2	±0.2%, ±1.5%

Load regulation	20% ~ 100% rated voltage	Vo1; Vo2	±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)	$\Delta Vo1/\Delta t$	±4.0/500us%
Voltage adjust	Nominal output	TRIM	±10%(adjust)
Turn-on delay time	Typical value		≤200mS

General

Efficiency	Nominal input, Full load	Vo≤5.0V,80%(Typical)	Vo>5.0V, 85%(Typical)
Switching frequency		300KHz (Typical)	Max 330KHz
Operating temperature	Free air	Industrial level	-25℃ ~ +55℃
		Military level	-40℃ ~ +85℃
Storage temperature		Industrial level	-40℃ ~ +105℃
		Military level	-55℃ ~ +120℃
Max case temperature		Industrial level	+100℃
		Military level	+110℃
Relative humidity			10%~90%
case material			Metal case
Isolation Voltage	500/1000/1500/2000 Vdc ≤0.5mA/1min,500Vdc ≤0.5mA/1min		
(MTBF)	2X10 ⁵ Hrs		

Product Nomination Method

Example	W D 50 - 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

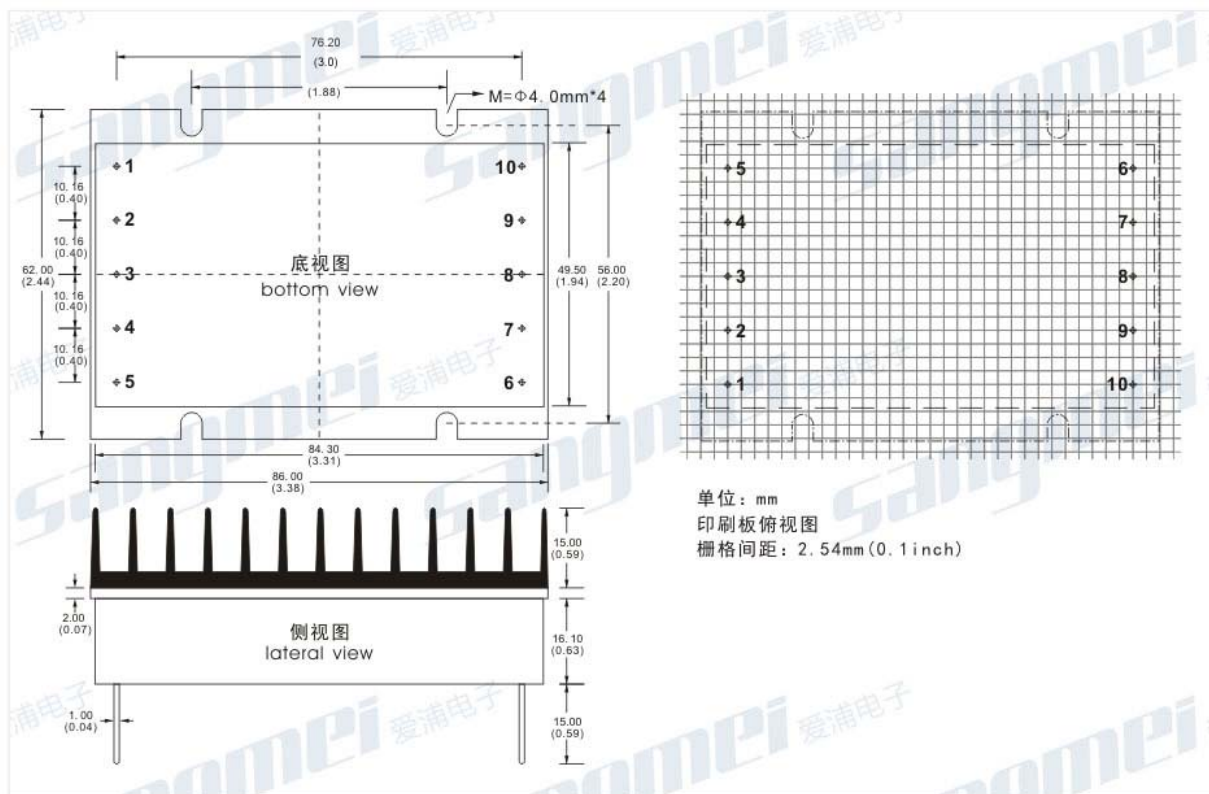
⑤	S: Single output D: dual output	W : Indicate wide range voltage input: 4:1
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Typical product tabulates

TYPE	Input voltage range	Output voltage / current					
		VO1		VO2		VO3	
		V	mA	V	mA	V	mA
WD30-□S05	12 V (9~18V)	5V	6000mA				
WD30-□S12	24V (18~36V)	12V	2500mA				
WD30-□S15	48V (36~72V)	15V	2000mA				
WD30-□S24	110V (72~144V)	24V	1250mA				
WD30-□D05	12V (10~36V) W	+5V	3000mA	-5V	3000mA		
WD30-□D12	48V (18~72V) W	+12V	1250mA	-12V	1250mA		
WD30-□D05I	(Dual have no wide range input voltage:4:1)	+5V	3000mA	+5V	3000mA		
WD30-□D12I		+12V	1250mA	+12V	1250mA		
WD40-□S05		5V	8000 mA				
WD40-□S12		12V	3300 mA				
WD40-□S15		15V	2670 mA				
WD40-□S24		24V	1660 mA				
WD40-□D05		+5V	4000 mA	-5V	4000 mA		
WD40-□D12		+12V	1660 mA	-12V	1660 mA		
WD40-□D05I		+5V	4000 mA	+5V	4000 mA		
WD40-□D12I		+12V	1660 mA	+12V	1660 mA		
WD50-□S05		5V	10000mA				
WD50-□S12		12V	4200mA				
WD50-□S15	15V	3300mA					
WD50-□S24	24V	2100mA					
WD50-□D05	12 V (9~18V)	+5V	5000mA	-5V	5000mA		
WD50-□D12	24V (18~36V)	+12V	2100mA	-12V	2100mA		
WD50-□D05I	48V (36~72V)	+5V	5000mA	+5V	5000mA		
WD50-□D12I	110V (72~144V)	+12V	2100mA	+12V	2100mA		
WD75-□S05	12V (10~36V) W	5V	15000mA				
WD75-□S12	48V (18~72V) W	12V	6250mA				
WD75-□S15	(Dual have no wide range input voltage:4:1)	15V	5000mA				
WD75-□S24		24V	3125mA				
WD75-□D05		+5V	7500mA	-5V	7500mA		
WD75-□D12		+12V	3125mA	-12V	3125mA		
WD75-□D05I		+5V	7500mA	+5V	7500mA		
WD75-□D12I		+12V	3125mA	+12V	3125mA		

□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
M4	86.00 x 62.00 x 18.10	338244DC

Pin Assignments

Pin No	1	2	3	4	5	6	7	8	9	10
Single	NP	-Vin	+Vin	FG	CTL	TRIM	+Vo1	-Vo1	NC	NP
Dual	NP	-Vin	+Vin	FG	CTL	TRIM	+Vo1	COM	-Vo2	NP
Dual Isolate	NP	-Vin	+Vin	FG	CTL	TRIM	+Vo1	-Vo1	+Vo2	-Vo2

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