Typical Features

- ◆Wide Input Voltage Range (2:1)
- ◆Typical Efficiency(typ. 90%)
- ◆Switching Frequency: 300KHz
- ◆Over Current/Short Circuit Protection, Self-Recovery
- ◆Input-Output Isolated
- ◆PCB Mounting
- ◆Metal Case, Low Output Ripple
- ◆High Power Density

Test Condition: Unless otherwise specified, data in the datasheet should be tested under the conditions of inputting nominal voltage, pure resistance rated load and Ta=25℃.

Input Specifications	Min(v)	Nom(v)	Max(v)	Notes
Input Voltage Vdc	9.5	12	18	2:1
	18	24	36	2:1
	36	48	72	2:1
	72	110	144	2:1
Remote Control (Low level remote)	ON	High level or Suspended--Operating		3.5Vdc ~ +Vin
	OFF	Low level or connect to ground-Turn off		≤0.3Vdc
Input Under Voltage Protection	Lower than the low side of input voltage, output switch off, Self-recovery			

Output Specifications			
Output Voltage Accuracy		Vo1	±1.0%(typ.)
Line Regulation	Nominal Load, full voltage range	Vo1	±0.2%
Load Regulation	20% ~ 100% nominal load	Vo1	±0.5%
Ripple & Noise	20MHz BM Full Load Vo≤5.0V, ≤50mVp-p; Vo≥48V, ≤180mVp-p; Other, ≤100mVp-p		
Dynamic Response	25% Nominal load step change	△Vo1/△t	±4.0/500μ s%
Output Voltage Adjustment	Nominal output voltage	TRIM	±10% Adjustable
Turn-on Delay Time	typical value		≤200mS

General Specifications

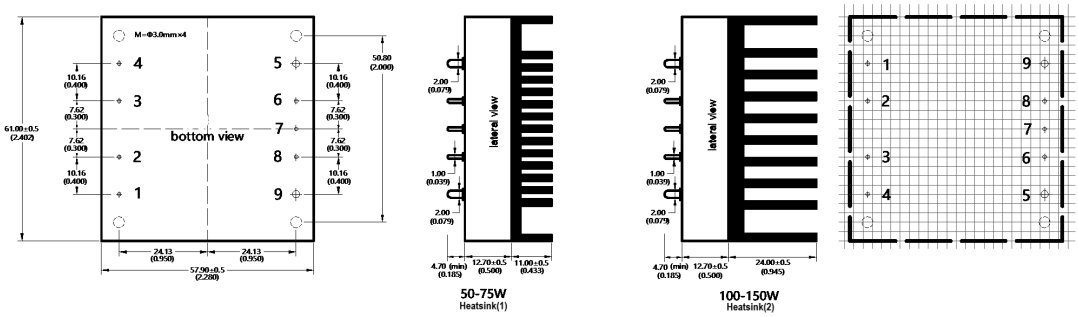
Transfer Efficiency	Nominal input, full load	Vo≤5.0V,82%(Typ.)	Vo>5.0V, 87%(Typ.)
Switching Frequency		300KHz (Typical)	MAX 330KHz
Operating Board Temperature		Free air convection	-40℃ ~ +100℃
Storage Temperature			-50℃ ~ +125℃
Relative Humidity			10%~90%
Case Material	Aluminum Case		
Isolation Voltage	Input-output 1500 Vdc ≤ 0.5mA/1min; Input-case 500Vdc ≤ 0.5mA / 1min		
MTBF	$3X10^5$Hrs		

Typical Product List

Part No.	Input Voltage Range	Output Voltage/ Current		Ripple and Noise	Efficiency (Typ.)
		Voltage(Vdc)	Current(mA)		%
WD100-24S12Q1	24V (18~36V)	12	8333	150	88
WD100-24S24Q1		24	4166	150	88
WD150-24S12Q1		12	12500	150	88
WD150-24S24Q1		24	6250	150	88
WD100-48S12Q1	48V (36~72V)	12	8333	150	88
WD100-48S24Q1		24	4166	150	88
WD150-48S12Q1		12	12500	150	88
WD150-48S24Q1		24	6250	150	88
WD200-48S12Q1		12	16667	150	88
WD200-48S24Q1		24	8333	150	88
WD100-110S12Q1	110V (66-160VDC)	12	8333	150	88
WD100-110S24Q1		24	4166	150	88
WD150-110S12Q1		12	12500	150	88
WD150-110S24Q1		24	6250	150	88
WD150-110S48Q1		48	3100	150	90

Note: due to space limitations ,above is only a part of our product list, please contact our sales team for more items.

Packing Dimension



Unit: mm(inch); Grid:2.54mm(0.1inch);
Printed board vertical view;
General tolerances: ±0.25mm;
General Pin Diameter tolerances: ±0.10mm

Pin Definition

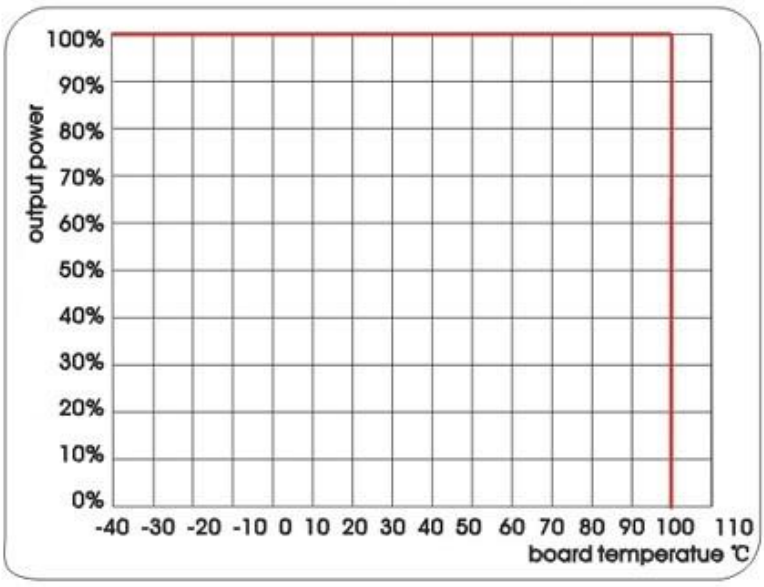
Single(S)	1	2	3	4	5	6	7	8	9
	+Vin	REM	CASE	-Vin	GND	-S	TRIM	+S	+Vout

* Note: If the definition of pin is not in accordance with the model selection manual, please refer to the label on actual item.

Packing Dimension

Packing Code	L x W x H	
Q1	61.00 × 57.9 × 12.70mm	2.402 × 2.280 × 0.500inch

Temperature Curve



Ripple& Noise Test: (Twisted Pair Method 20MHZ bandwidth)

(1)12# twisted pair to connect, Oscilloscope bandwidth set as 20MHz, 100M bandwidth probe, terminated with 0.1uF polypropylene capacitor and 47uF high frequency low resistance electrolytic capacitor in parallel, oscilloscope set as Sample pattern.

(2) Input terminal connect to power supply, output terminal connect to electronic load through jig plate, Use 30cm±2 cm sampling line, Power line selected from corresponding diameter wire with insulation according to the flow of output current.