



Technology Parameter

Output Specifications		
Technology Index	Technology parameter	Test Condition
Regulated Accuracy	Main circuit: 1.0%max Vice-circuit: 1.5%max	From 0% to 100% load
Line Regulation	Main circuit: 0.2%max Vice-circuit: 0.5%max	Full Load
Negative Load Regulation	Main circuit: 0.5%max Vice-circuit: 1.0%max	From 0% to 100% Load
Output Voltage Adjustment Range	$\geq 10V_o$	
Output Threshold Current	110% Rated Output Current	
Output Limiting Protection	120% Protection, Auto Resume	
Output Short Circuit Protection	Continuous Protection , Auto Resume	
Ripple and Noise	$V_o \leq 5V$, V p-p max $\leq 50mV$ $V_o \geq 48V$, V p-p max $\leq 200mV$ Other output, V p-p max \leq	20MHz Bandwidth

	100mVp-p	
Dynamic Respond Speed	150us	25% Negative Load ~ Full load
Starting Delay Time	500ms	
Input Specification		
Input Current Range	(24VDC) 18—36VDC	
	(48VDC) 36—72VDC	
Distance Control Specification	Switch on: $\geq 2.5\text{VDC}$ Open Circuit Switch off: $< 0.7\text{VDC}$	
General Specification		
Switching Frequency	350KHZ	Typical
Convert Efficiency	Refer to recommended circuit	
Isolation Voltage	1500VDC	Between Output & Input
MTBF	200000 Hours	
Temperature	0.02%/°C	
Environmental Specification		
Operating temperature range	-25°C~+60°C	
Storage humidity	-45°C~+105°C	
Opposition humidity	10%~90%	
Cooling	Free air convection	

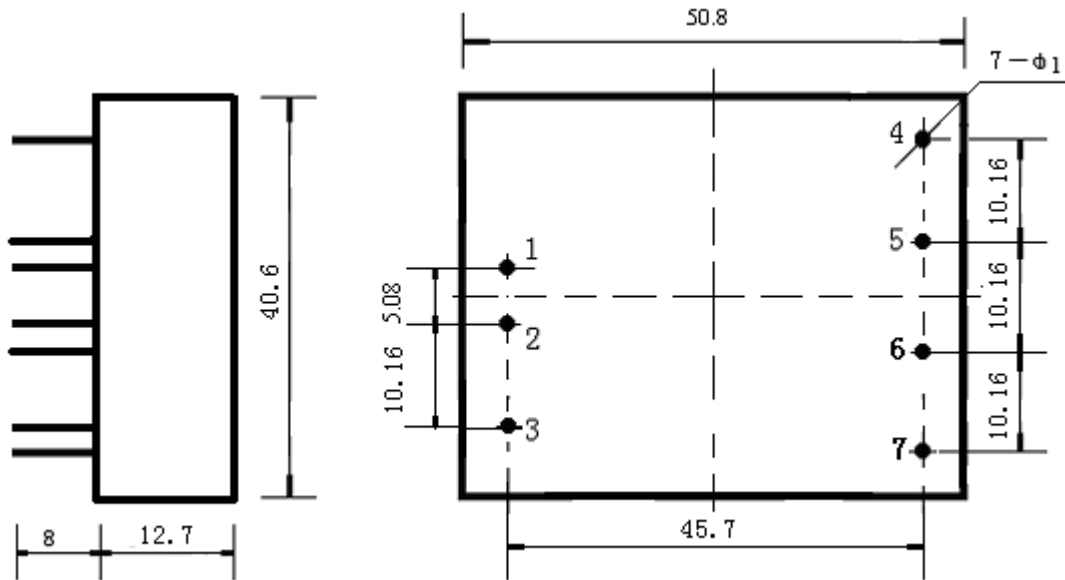
Product Program

Input Voltage (V)		Output Voltage (V)	Output Current (A)	Efficiency (%)	Part Number	Output Way
Nominal	Range					
24	18~36	+5.0	4.0	81	DW20-24S05	Single
24	18~36	+12.0	1.67	83	DW20-24S12	Single
24	18~36	+15.0	1.35	83	DW20-24S15	Single

24	18~36	± 5.0	2.0	81	DW20-24D05	Dual
24	18~36	± 12.0	0.48	82	DW20-24D12	Dual
24	18~36	± 15.0	0.67	82	DW20-24D15	Dual
48	36~72	+5.0	4.0	82	DW20-48S05	Single
48	36~72	+12.0	1.67	83	DW20-48S12	Single
48	36~72	+15.0	1.53	83	DW20-48S15	Single
48	36~72	± 5.0	2.0	81	DW20-48D05	Dual
48	36~72	± 12.0	0.84	83	DW20-48D12	Dual
48	36~72	± 15.0	0.67	83	DW20-48D15	Dual

Note: Our company can also offer other types' DC-DC Converter according to customer's requirement.

DW20 Series outline dimension & recommended footprint (Units: mm)



Left View

Bottom View

Pin Definition		
PIN	Single	Dual
1	+Vin	+Vin
2	-Vin	-Vin
3	REM	REM
4	NC	+Vout
5	+Vout	COM
6	-Vout	-Vout
7	TRIM	TRIM