

- 6-12W REGULATED OUTPUT POWER
- 2:1 WIDE INPUT VOLTAGE RANGE
- REGULATED OUTPUT VOLTAGE
- NO HEAT SINK REQUIRED
- OVER-CURRENT & SHORT-CIRCUIT PROTECTION
- PCB MOUNTING TYPE, 1500VDC ISOLATION
- HIGH ACCURACY REGULATED OUTPUT
- INTERNATIONAL STANDARD DIP PACKAGE


CE RoHS COMPLIANT
ELECTRICAL SPECIFICATIONS:

(All specifications tested typically @ 25°C, humidity < 75%, nominal input and rated output unless otherwise noted.)

Output Specifications

Technical Specifications	Technical parameters	Test Conditions
Regulation 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
Load Regulation	Main circuit: 0.5%max Vice-circuit: 1.0%max	From 0% to 100% Load
Over-current Protection	110%	
Ripple and Noise	Vo ≤ 5V, V p-p max ≤ 50mV Vo ≥ 48V, V p-p max ≤ 200mV Other outputs, Vp-p max ≤ 100mVp-p	20MHz Bandwidth
Dynamic Response Speed	150us	25% Load to Full load
Starting Delay Time	500ms	

Input Specifications

Input Voltage Range	(5VDC) 4.5~9.0VDC	5VDC Nominal
	(12VDC) 9~18VDC	12VDC Nominal
	(24VDC) 18~36VDC	24VDC Nominal
	(48VDC) 36~72VDC	48VDC Nominal
	(110VDC) 70~150VDC	110VDC Nominal
Linearity High Speed	0.5%	Low~ High

General Specifications

Switching Frequency	300KHZ	Typical
Conversion Efficiency	Refer to recommended circuit (Refer to Product List)	
Protection Specification	Over-current and short circuit protection	
Isolated Voltage	1500VDC	Between I/O
MTBF	1.0x10 ⁶ hrs	
Temperature	0.02%/°C	

Environmental Specifications

Operating temperature range	-25°C~+60°C	
Storage humidity	-45°C~+105°C	
Opposition humidity	10%~90%	
Cooling	Free air convection	

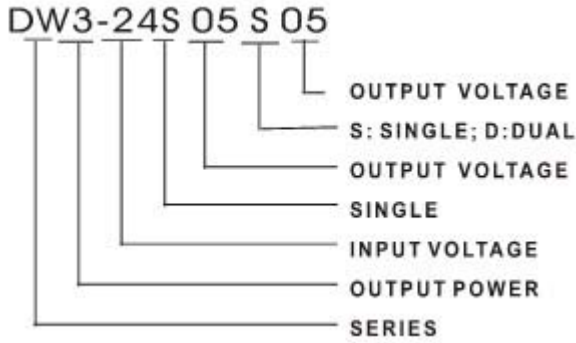
Product List:

Input Voltage(V)		Output Voltage (VDC)	Output Current (A)	Efficiency (%)	Model Number	Output Channel
Nominal (VDC)	Input Range (VDC)					
5	4.5~9.0	+12	+0.6	80	DW6-05S12	Single
12	9.0~18	±5.0	+1.2	77	DW6-12D05	Dual
12	9.0~18	±5.0	+2.0	86	DW10-12D05	Dual
24	18~36	+12	+0.5	83	DW6-24S12	Single
24	18~36	+5.0	+2.0	79	DW10-24S05	Single
24	18~36	+12.0	+0.80	86	DW10-24S12	Single
24	18~36	+15.0	+0.66	86	DW10-24S15	Single
24	18~36	±12.0	±0.40	86	DW10-24D12	Dual
24	18~36	±15.0	±0.33	86	DW10-24D15	Dual
48	36~72	+5.0	+2.00	83	DW10-48S05	Single
48	36~72	+12.0	+1.0	87	DW12-48S12	Single
48	36~72	+15.0	+0.80	87	DW12-48S15	Single
48	36~72	±5.0	±1.0	86	DW10-48D05	Dual
48	36~72	±12.0	±0.50	87	DW12-48D12	Dual
48	36~72	±15.0	±0.40	87	DW12-48D15	Dual

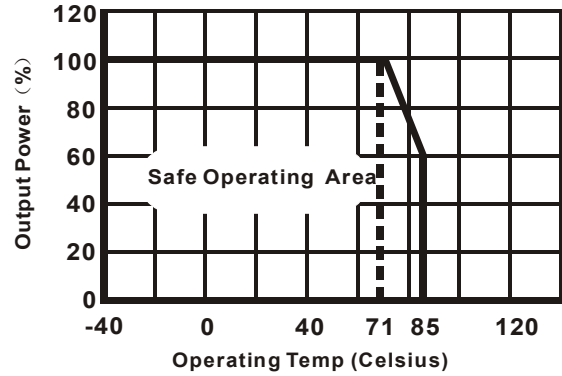
110	70-150	+5.0	+0.40	85	DW2-110S05	Single
110	70-150	+15.0	+0.20	87	DW3-110S15	Single
110	70-150	+5.0V	+2.00	87	DW10-110S05	Single

Note: For other user-defined DC-DC Converter, please contact us for details.

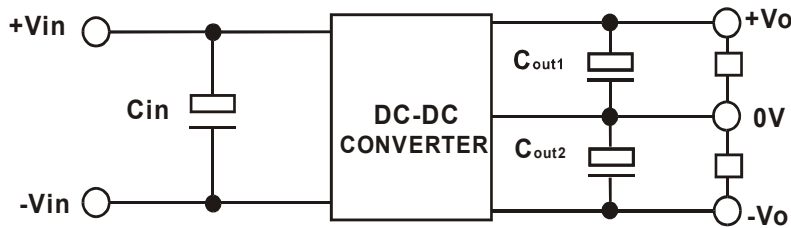
MODEL SELECTION



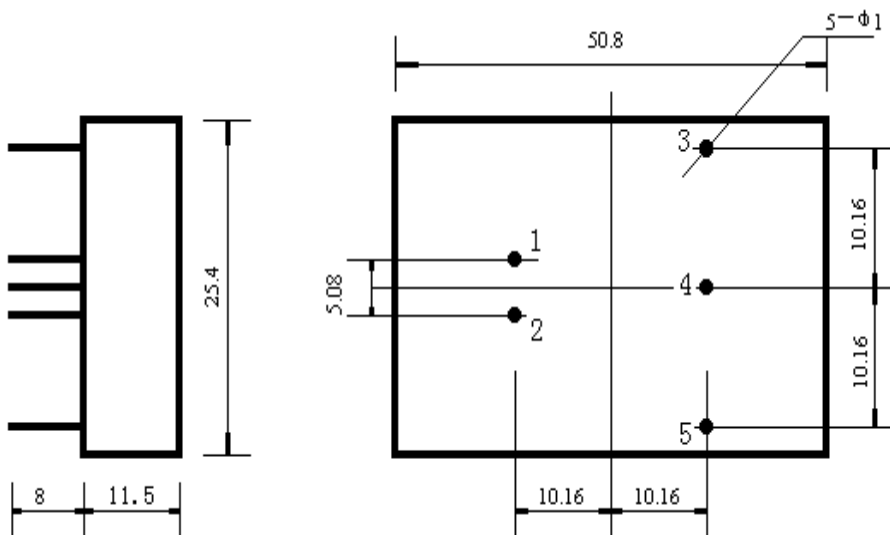
TEMPERATURE DERATING GRAPH



TYPICAL CONNECTION



OUTLINE DIMENSION Unit:mm



PINS DEFINITION

PIN Definition		
PIN	Single Output	Dual Output
1	-Vin	-Vin
2	-Vin	-Vin
3	+Vout	+Vout
4	NC	Com
5	-Vout	-Vout

Left View

Bottom View

Dimension: 25.4x50.8x11.5mm