

DW15-20W 2:1 DC DC Converters

Features:

- >>2:1 Wide Input Voltage:9-18V,18-36V,36-72V,if 110V,input range is 85-125VDC
- >>Efficiency to 83%
- >>DIP Package
- >>1KVDC Isolation
- >>Single/Dual Output
- >>Regulated Output
- >>PCB Mounting
- >>Size: 50.8x40.6x12.7mm
- >>Over Current Short Circuit Protection



15-20W series converter is a high performance isolated DC - DC converter. There are single output and dual output. High regulation accuracy, high efficiency, high reliability, low ripple and noise make it suitable for sub-distribution board power supply system. Mainly used in program-controlled switches, ATM switches, PBX, ISDN, cellular communications. .

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

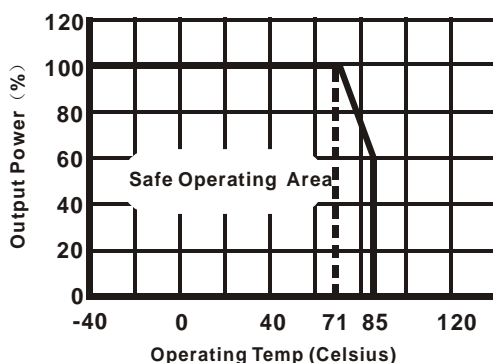
Input Specifications:

Item	Type.	Input Range
Input Voltage Range	12VDC	9-18VDC
	24VDC	18-36VDC
	48VDC	36-72VDC
	110VDC	85-125VDC
Filter	Pi	

Output Specifications:

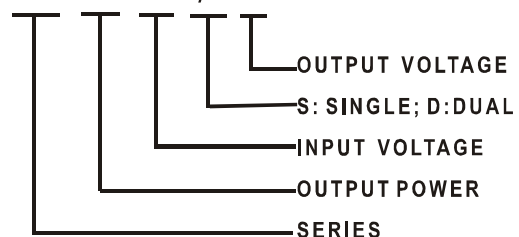
Item	Testing condition	MIN.	Type.	MAX.
Output Accuracy	From 10% to 100% load	Main circuit: 1.0%max, Vice-circuit:1.5%max		
Line Regulation	Full Load	Main output: 0.2%max, Secondary:0.5%max		
Load Regulation	From 0% to full load	Main output: 0.5%max,Secondary: 1.0%max		
Ripple and Noise	(20MHz Bandwidth)	$V_o \geq 48V, V_{p-pmax} \leq 200mV$, Other output, $V_{p-pmax} \leq 100mV$		
Output Threshold Current	110% Rated Output Current			
Short Circuit Protection	120% over current protection			
Start-up Time	500ms			
Dynamic Respond Speed	25% Load-Full load	150us		

TEMPERATURE DERATING GRAPH



NOMENCLATURE

DW20-24 S/D 05



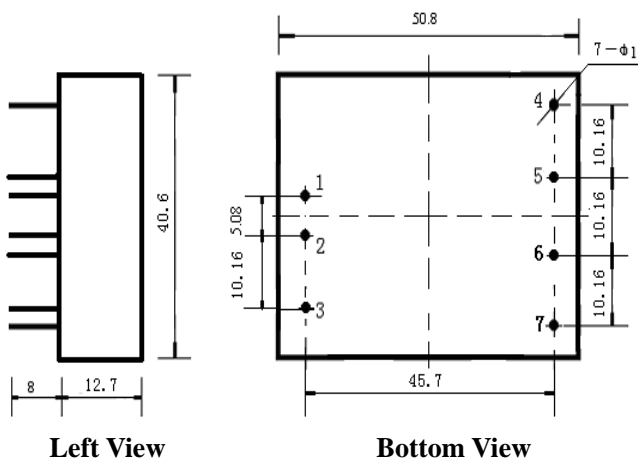
Common Specifications:

Item	Testing condition	MIN.	Type.	MAX.
Operating temperature range		-25°C		+71°C
Storage temperature range		-55°C		+105°C
Humidity		10%		90%
Cooling	Free Air Convection			
Isolation voltage (VDC)	Input to Output	1000VDC		
Isolation resistance (ohms)			10 ⁹ Ω	
Isolation capacitance (pF)				30
Case material	Non-conductive black plastic			
Potting material	Epoxy Resin UL94-V0			
Dimension (mm / inch)	50.80*40.60*12.70 (2.00*1.60*0.50)			
MTBF (Hrs)	2*10 ⁶			

Product List:

Part Number	Input Voltage (VDC)		Output		Efficiency (%, Typ.)	Output
	Nominal	Range	Current (A)	Voltage (VDC)		
DW20-12S12	12	9~18	1.66	12	83	Single
DW20-24S05	24	18~36	4.00	5	81	Single
DW20-24S12	24	18~36	1.66	12	83	Single
DW20-24S15	24	18~36	1.34	15	83	Single
DW20-24D05	24	18~36	±2.0	±5	81	Dual
DW20-24D12	24	18~36	±0.83	±12	82	Dual
DW20-24D15	24	18~36	±0.66	±15	82	Dual
DW20-48S05	48	36~72	4.0	5	82	Single
DW20-48S12	48	36~72	1.66	12	83	Single
DW20-48S15	48	36~72	1.34	15	83	Single
DW20-48D05	48	36~72	±2.0	±5	81	Dual
DW20-48D12	48	36~72	±0.83	±12	83	Dual
DW20-48D15	48	36~72	±0.66	±15	83	Dual
DW20-110S12	110V	85~125	±0.83	±12	81	Dual

DIMENSION



PINS DESCRIPTION

PIN	Pin Function	
	Single	Dual
1	+Vin	+Vin
2	GND	GND
3	REM	REM
4	NC	+Vo
5	+Vo	0V
6	0V	-Vo
7	TRIM	TRIM