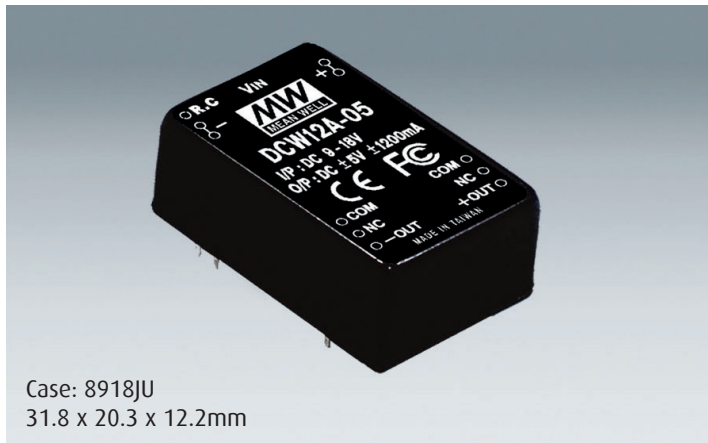


DCW12 Series

12W DC-DC Regulated Dual Converter Power Supply



Case: 8918JU
31.8 x 20.3 x 12.2mm

Features

- 2: 1 wide input range
- 1500VDC I/O isolation
- Built-in remote ON/OFF control
- Built-in EMI filter
- Protections: Short circuit / Overload
- Cooling by free air convection
- Five sided shield metal case
- 100% burn-in test
- Low cost / High reliability
- 2 years warranty



Specification

INPUT	Voltage Range	A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 72VDC								
	DC Current	Full Load: A: 1245mA B: 625mA C: 320mA No Load: A: 70mA B: 35mA C: 25mA								
	Filter	PI network								
	Protection	Fuse recommended								
OUTPUT	MODEL No.	DCW12A-05	DCW12B-05	DCW12C-05	DCW12A-12	DCW12B-12	DCW12C-12	DCW12A-15	DCW12B-15	DCW12C-15
	DC Voltage	±5V	±5V	±5V	±12V	±12V	±12V	±15V	±15V	±15V
	Current Range	±240A ~ ±1200mA			±100A ~ ±500mA			±80A ~ ±400mA		
	Rated Power	12W	12W	12W	12W	12W	12W	12W	12W	12W
	R&N	50mVp-p	50mVp-p	50mVp-p	60mVp-p	60mVp-p	60mVp-p	60mVp-p	60mVp-p	60mVp-p
	Efficiency	80%	80%	81%	84%	84%	84%	83%	84%	83%
	Line Regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Load Regulation	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Voltage Accuracy	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%	±2.0%
	Switching Frequency	400KHz min								
PROTECTION	External Capacitance	670uF	670uF	670uF	100uF	100uF	100uF	47uF	47uF	47uF
	Overload	110 ~ 180% rated output power Hiccup mode, recovers automatically after fault condition is removed								
	Short Circuit	All output equipped with short circuit Hiccup mode, recovers automatically after fault condition is removed								
ENVIRONMENT	Working Temperature	-40 ~ +71°C (Please refer to 'Derating Curve' section)								
	Working Humidity	20% ~ 95% RH non-condensing								
	Storage Temperature	-40 ~ +105°C, 10 ~ 95% RH non-condensing								
	Temp Coefficient	±0.05%/°C (0 ~ 50°C)								
SAFETY & EMC	Vibration	10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes								
	Safety Standards	EAC TP TC 004 approved								
	Withstand Voltage	I/P-O/P: 1.5KVDC								
	Isolation Resistance	I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH								
	Isolation Capacitance	2200pF max.								
	EMC Emission	Compliance to EN55032 Class A, FCC part 15 Class A, EAC TP TC 020								
OTHERS	EMC Immunity	Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A, EAC TP TC 020								
	Remote Control	Power ON: R.C. ~ -Vin > 4VDC or open ; Power OFF: R.C. ~ -Vin < 1VDC or short								
	M.T.B.F.	600K hrs min. MIL-HDBK-217F (25°C)								
	Weight	18.5g								

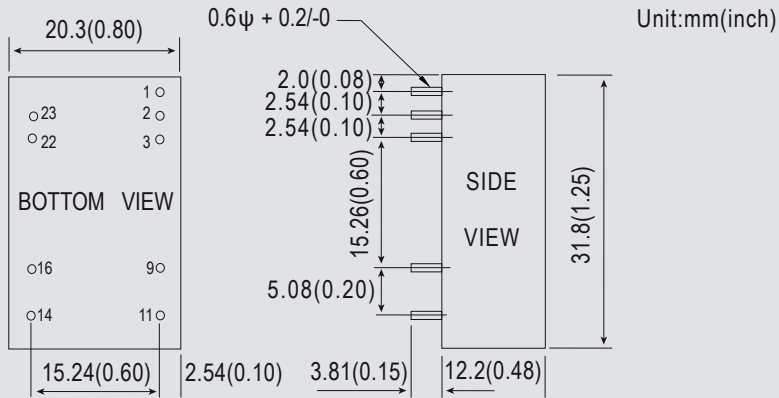
1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.
2. Ripple and Noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with 0.1uF & 47uF parallel capacitor.
3. Line regulation is measured from low line to high line at rated load.
4. Load regulation is measured from 10% ~ 100% rated load.
5. Please prevent the converter from operating in overload or short circuit condition for more than 30 seconds.

DCW12 Series

12W DC-DC Regulated Dual Converter Power Supply



Mechanical



Pin Size is Tolerance 0.5 ± 0.05 mm, Tolerance .X or .XX = ± 0.5 mm

Pin Configuration

Pin No.	Output
1	R.C.
2 & 3	-Vin
9	COM
11	-Vout
14	+Vout
16	COM
22 & 23	+Vin

Derating Curve

