

# **FEATURES**

- 105°C Output Capacitor
- Low Cost, High Reliability
- Compact Size, Light Weight
- 100% Full Load Burn-In Tested
- Built-In EMI Filter, Low Ripple Noise
- High Efficiency, Low Working Temperature
- Short Circuit, Overload, and Over Voltage Protected



All specifications are base	ed on 25°C, Nominal Input Voltage, and Maximum Output Current unless otherwise noted.		
	erve the right to change specifications based on technological advances.		
INPUT SPECIFICATIONS			
Input Voltage	DCSD-150 <b>B</b> : 19 ~ 36VDC DCSD-150 <b>C</b> : 36 ~ 72VDC DCSD-150 <b>D</b> : 72 ~ 144VDC or 85~132VAC		
Input Current	DCSD-150 <b>B</b> : 8.5A at 24VDC DCSD-150 <b>C</b> : 4.2A at 48VDC DCSD-150 <b>D</b> : 2.1A at 96VDC		
Inrush Current	DCSD-150 <b>D</b> : 25A at 96VDC		
Leakage Current	DCSD-150 <b>D</b> : <0.75mA at 120VAC		
OUTPUT SPECIFICATIONS			
Output Voltage	See Table		
Output Voltage Tolerance (See Note 3)	±1%		
Voltage Adjustability	See Table		
Output Current	See Table		
Line Regulation	12V outputs: ±0.5% 24V outputs: ±0.3%		
Load Regulation	12V outputs: ±0.5% 24V outputs: ±0.3%		
Ripple & Noise	12V outputs: 120mVp-p 24V outputs: 150mVp-p		
Output Power	See Table		
Setup, Rise, Hold Up Time	DCSD-150 <b>D</b> (only): 2s, 50ms, 10ms/20ms		
PROTECTION			
Over Voltage Protection	12V outputs: 16.8 ~ 20V / 10% Load 24V outputs: 31.5 ~ 37.5V / 10% Load		
Over Load Protection	105%~135% Type: Foldback Current Limiting Reset: Auto recovery.		
GENERAL SPECIFICATIONS			
Efficiency	See Table		
Withstand Voltage	1.5KVAC (input to output), 1.5KVAC (input to FG), 0.5KVAC (output to FG)		
Isolation Resistance	500VDC / 100MΩ (input to output, input to FG, output to FG)		
<b>ENVIRONMENTAL SPECIFICATIONS</b>			
Working Temperature	-10°C to +60°C (refer to output derating curve)		
Storage Temperature	-20°C to +85°C		
Working Humidity	20% to 90% RH		
Storage Humidity	10% to 95% RH		
Vibration	10~500Hz, 2G 10min./1cycle, Period for 60min. each axes		
Temperature Coefficient	±0.03%/°C (0°C~50°C)		
PHYSICAL SPECIFICATIONS			
Weight	850 grams		
Dimensions	199(L) x 110(W) x 50(H) mm		
SAFETY & EMC			
EMC Standards	EN55022 CLASS B (Radiation), EN61000-4-2,3,4,6,8 ENV50204 Verification for DCSD-150B/ Series only, not including DCSD-150D series.		



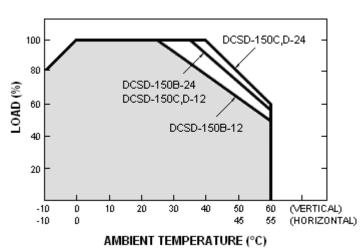
### **OUTPUT VOLTAGE / CURRENT RATING CHART**

Model	Input Voltage	Output Voltage	Voltage Adjustability	Rated Output Current	Output Ripple & Noise	Output Power	Efficiency
DCSD-150B-12	24 VDC	12 VDC	11 ~ 16VDC	12.5A	120mVp-p	150W	75%
DCSD-150B-24	(19 ~ 36 VDC)	24 VDC	23 ~ 30VDC	6.3A	150mVp-p	151.2W	80%
DCSD-150C-12	48 VDC	12 VDC	11 ~ 16VDC	12.5A	120mVp-p	150W	77%
DCSD-150C-24	(36 ~ 72 VDC)	24 VDC	23 ~ 30VDC	6.3A	150mVp-p	151.2W	79%
DCSD-150D-12	96 VDC	12 VDC	11 ~ 16VDC	12.5A	120mVp-p	150W	77%
DCSD-150D-24	(72 ~ 144 VDC)	24 VDC	23 ~ 30VDC	6.3A	150mVp-p	151.2W	82%

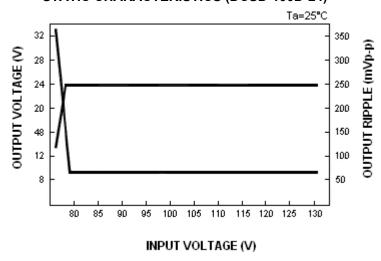
### **NOTES**

- 1. The DCSD-150 Series is designated as DCSD-150x-y where x can be **B** (19 ~ 36 VDC input voltage), **C** (36 ~ 72 VDC input voltage), or **D** (72 ~ 144 VDC input voltage) and y can be 12 or 24 for output voltage.
- 2. All parameters are specified at rated input, rated load and 25°C 70% RH. ambient.
- 3. Tolerance includes setup tolerance, line regulation, and load regulation.
- 4. Ripple & noise are measured at 20MHz using a 12" twisted pair terminated with a 0.1uF & 47uF capacitor.
- 5. Line regulation is measured from low line to high line at rated load.
- 6. Load regulation is measured from 0% to 100% rated load.





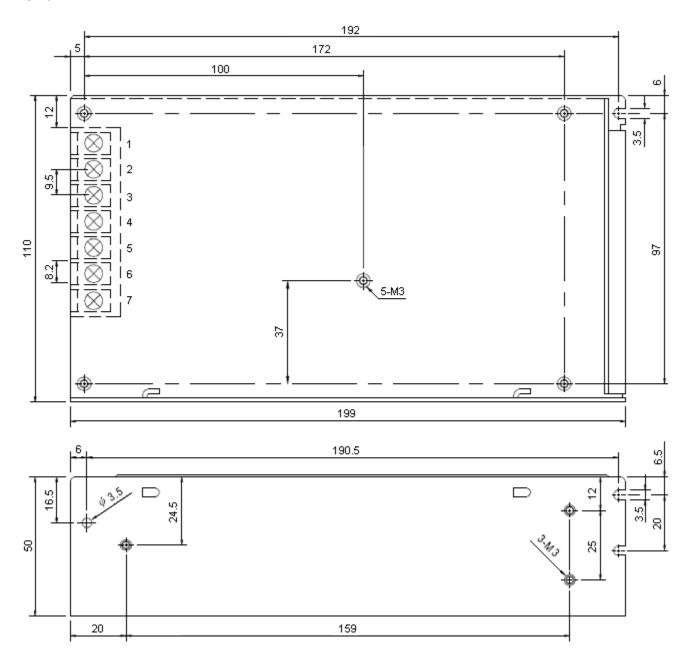
### STATIC CHARACTERISTICS (DCSD-100D-24)





# **MECHANICAL DRAWING**

Unit: mm



Terminal Pin No. Assignment					
Pin No.	Assignment	Pin. No	Assignment		
1,2	INPUT	4,5	DC OUTPUT (-V)		
3	FG	6,7	DC OUTPUT (+V)		

DC	DCSD-150B,C		
Pin No.	Assignment		
1	DC INPUT (V+)		
2	DC INPUT (V-)		

DCSD-150D			
Pin No.	Assignment		
1,2	AC/DC INPUT		