

Quality Engineering Test Report

SERIES: SD-150C 150W DC-DC SINGLE OUTPUT SWITCHING POWER SUPPLY

SAMPLE: A. SD-150C-12 12V / 12.5A

B. SD-150C-24 24V / 6.3A

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT
1	DC INPUT VOLTAGE RANGE	I/P : TESTING SPEC : 36~72VDC O/P : FULL LOAD	B: 31.6~72VDC	P
2	LINE REGULATION	I/P : 36~72VDC SPEC : A:±0.5% O/P : FULL LOAD B:±0.3%	A: ----- B: -0.025%~-0.025%	P
3	LOAD REGULATION	I/P : 48VDC SPEC : A:±0.5% O/P : MIN. TO FULL LOAD B:±0.3%	A: ----- B: -0.041%~+0.054%	P
4	OUTPUT VOLTAGE TOLERANCE	I/P : 36~72VDC SPEC : A:±1% O/P : MIN. TO FULL LOAD B:±1%	A: ----- B: -0.075%~+0.54%	P
5	RIPPLE&NOISE	I/P : 48VDC SPEC : A:120mVp-p O/P : FULL LOAD B:150mVp-p	A: ----- B: :16mV	P
6	DC INPUT CURRENT	I/P : 48VDC SPEC : 4.2A O/P : FULL LOAD	B: :3.675A	P
7	MAX. INRUSH CURRENT	I/P : 48VDC SPEC : NONE O/P : FULL LOAD	: NONE	P
8	O/P VOLTAGE ADJ. RANGE	I/P : 48VDC SPEC : A:11~16V O/P : MIN. LOAD B:23~30V	A: ----- B: 21.44~32.88V	P
9	SET UP TIME	I/P : 48VDC SPEC : 2S O/P : FULL LOAD	B: 1724mS	P
10	EFFICIENCY	I/P : 48VDC SPEC : A:77% O/P : FULL LOAD B:80%	A: ----- B: 85.44%	P
11	OVER LOAD PROTECTION	I/P : 48VDC SPEC : 105%~135% O/P : TESTING	A: ----- B: 121%	P
12	OVER VOLTAGE PROTECTION	I/P : 48VDC SPEC : A:16.8V~20V O/P : 10% LOAD B:31.5V~37.5V	A: ----- B: 31.7V	P
13	INSULATION RESISTANCE	SPEC : I/P-O/P : 500VDC/100M Ohms MIN. I/P-FG : 500VDC/100M Ohms MIN. O/P-FG : 500VDC/100M Ohms MIN.	B: I/P-O/P : >100M Ohms I/P-FG : >100M Ohms O/P-FG : >100M Ohms	P
14	DIELECTRIC / WITHSTAND VOLTAGE	SPEC : I/P-O/P : 1500VAC/ 1 min (10mA CUT-OFF). I/P-FG : 1500VAC/ 1 min (10mA CUT-OFF) O/P-FG : 500VAC/ 1 min (10mA CUT-OFF)	B: I/P-O/P : <2.587mA I/P-FG : <3.51mA O/P-FG : <2.157mA	P
15	BURN-IN TEST	I/P : 48VDC O/P:FULL LOAD TA : 27.4°C BURN-IN DURATION : 2 hrs	B:NON BREAK	P