

Model : NID60S24-12 48W
12V / 0-4A

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	VOLTAGE ACCURACY	-2%~+2% (Max)	I/P:24VDC O/P:50% LOAD Ta:25°C	+1.34%	P
2	RIPPLE & NOISE	120mVp-p (Max)	I/P:24VDC O/P:FULL LOAD Ta:25°C	32mV	P
3	LINE REGULATION	-0.5%~+0.5% (Max)	I/P:20VDC~53VDC O/P:FULL LOAD Ta:25°C	-0% ~ +0.01%	P
4	LOAD REGULATION	-0.5%~+0.5% (Max)	I/P:24VDC O/P:MIN-FULL LOAD Ta:25°C	-0% ~ +0.01%	P

INPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	INPUT VOLTAGE RANGE	20VDC-53VDC	I/P:TESTING O/P:FULL LOAD Ta:25°C	17.3VDC-53VDC	P
2	EFFICIENCY	96% (Typ)	I/P:24VDC O/P:FULL LOAD Ta:25°C	96.37%	P
3	DC CURRENT	2120 mA / FULL LOAD (Max) 30 mA / NO LOAD (Max)	I/P:24VDC O/P:NO / FULL LOAD Ta:25°C	2103 mA / FULL LOAD 22 mA / NO LOAD	P

PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	OVER LOAD PROTECTION	120% ~ 220% (Typ)	I/P:24VDC O/P:TESTING Ta:25°C	150% HICCUP MODE AUTO-RECOVER	P
2	SHORT PROTECTION	YES	I/P:53VDC O/P:SHORT Ta:25°C	NO DAMAGE HICCUP MODE AUTO-RECOVER	P

CONTROL FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	REMOTE CONTROL	POWER ON : 3.3VDC < R.C-COM < 12VDC OR OPEN POWER OFF : R.C-COM < 0.4VDC OR SHORT	I/P:24VDC O/P:FULL LOAD Ta:25°C	POWER ON : 0.6VDC OR OPEN POWER OFF : 0.5VDC OR SHORT	P

ENVIRONMENT TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT																																				
1	TEMPERATURE RISE TEST	1. ROOM AMBIENT BURN-IN : 3HRS I/P:24VDC O/P:FULL LOAD Ta=25°C 2. HIGH AMBIENT BURN-IN : 3HRS I/P:24VDC O/P:FULL LOAD Ta=55°C 3. HIGH AMBIENT BURN-IN : 3HRS I/P:24VDC O/P:50% LOAD Ta=65°C 4. ROOM AMBIENT BURN-IN : 3HRS I/P:48VDC O/P:100% LOAD Ta=25°C			P																																				
		<table border="1"> <thead> <tr> <th>NO</th> <th>Position</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>O/P L1</td> <td>62.1°C</td> <td>92.7°C</td> <td>87.8°C</td> <td>84.6°C</td> </tr> <tr> <td>2</td> <td>O/P C16</td> <td>51.4°C</td> <td>80.9°C</td> <td>81.0°C</td> <td>61.7°C</td> </tr> <tr> <td>3</td> <td>O/P Q1</td> <td>60.2°C</td> <td>91.3°C</td> <td>84.8°C</td> <td>79.7°C</td> </tr> <tr> <td>4</td> <td>U1</td> <td>57.4°C</td> <td>85.3°C</td> <td>83.8°C</td> <td>70.6°C</td> </tr> <tr> <td>5</td> <td>I/P C8</td> <td>50.3°C</td> <td>79.1°C</td> <td>78.8°C</td> <td>61.0°C</td> </tr> </tbody> </table>				NO	Position	1	2	3	4	1	O/P L1	62.1°C	92.7°C	87.8°C	84.6°C	2	O/P C16	51.4°C	80.9°C	81.0°C	61.7°C	3	O/P Q1	60.2°C	91.3°C	84.8°C	79.7°C	4	U1	57.4°C	85.3°C	83.8°C	70.6°C	5	I/P C8	50.3°C	79.1°C	78.8°C	61.0°C
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5	I/P C8	50.3°C	79.1°C	78.8°C	61.0°C																																				
2	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 3 HOURS	I/P:24VDC O/P: 100% LOAD Ta= -25°C	TEST : OK	P																																				

DATE	SAMPLE	TEST RESULT	TESTER	APPROVAL
2009.3.10	PRODUCT SAMPLE	PASS	PETER	VINCENT ZENG