

Model : NID30S24-15 30W  
15V / 0-2A

**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	+0.67%	P
2	RIPPLE & NOISE	150mVp-p (Max)	I/P:24VDC O/P:FULL LOAD Ta:25°C	20mV	P
3	LINE REGULATION	-0.5%~+0.5% (Max)	I/P:20VDC~53VDC O/P:FULL LOAD Ta:25°C	-0% ~ +0%	P
4	LOAD REGULATION	-0.5%~+0.5% (Max)	I/P:24VDC O/P:MIN-FULL LOAD Ta:25°C	-0.07% ~ +0.07%	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	18VDC-53VDC	P
2	EFFICIENCY	96% (Typ)	I/P:24VDC O/P:FULL LOAD Ta:25°C	96.42%	P
3	DC CURRENT	1310 mA / FULL LOAD (Max) 30 mA / NO LOAD (Max)	I/P:24VDC O/P:NO / FULL LOAD Ta:25°C	1305 mA / FULL LOAD 16 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	136% 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 : 0.62VDC OR OPEN POWER OFF : 0.58VDC 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 C16</td> <td>44.1°C</td> <td>65.6°C</td> <td>69.3°C</td> <td>46.2°C</td> </tr> <tr> <td>2</td> <td>O/P L1</td> <td>46.2°C</td> <td>73.4°C</td> <td>73.2°C</td> <td>62.8°C</td> </tr> <tr> <td>3</td> <td>O/P Q1</td> <td>47.8°C</td> <td>74.0°C</td> <td>75.1°C</td> <td>64.5°C</td> </tr> <tr> <td>4</td> <td>U1</td> <td>46.5°C</td> <td>75.4°C</td> <td>77.9°C</td> <td>59.6°C</td> </tr> <tr> <td>5</td> <td>I/P C8</td> <td>44.2°C</td> <td>70.8°C</td> <td>73.0°C</td> <td>56.8°C</td> </tr> </tbody> </table>				NO	Position	1	2	3	4	1	O/P C16	44.1°C	65.6°C	69.3°C	46.2°C	2	O/P L1	46.2°C	73.4°C	73.2°C	62.8°C	3	O/P Q1	47.8°C	74.0°C	75.1°C	64.5°C	4	U1	46.5°C	75.4°C	77.9°C	59.6°C	5	I/P C8	44.2°C	70.8°C	73.0°C	56.8°C
NO	Position	1	2	3	4																																				
1	O/P C16	44.1°C	65.6°C	69.3°C	46.2°C																																				
2	O/P L1	46.2°C	73.4°C	73.2°C	62.8°C																																				
3	O/P Q1	47.8°C	74.0°C	75.1°C	64.5°C																																				
4	U1	46.5°C	75.4°C	77.9°C	59.6°C																																				
5	I/P C8	44.2°C	70.8°C	73.0°C	56.8°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