

Model : NID30S48-24 30W
24V / 0~1.25A

OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	VOLTAGE ACCURACY	-2%~+2% (Max)	I/P:48VDC O/P:50% LOAD Ta:25°C	+1.08%	P
2	RIPPLE & NOISE	200mVp-p (Max)	I/P:48VDC O/P:FULL LOAD Ta:25°C	50mV	P
3	LINE REGULATION	-0.5%~+0.5% (Max)	I/P:30VDC~53VDC O/P:FULL LOAD Ta:25°C	-0.04% ~ +0.04%	P
4	LOAD REGULATION	-0.5%~+0.5% (Max)	I/P:48VDC O/P:MIN-FULL LOAD Ta:25°C	-0.04% ~ +0%	P

INPUT FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	INPUT VOLTAGE RANGE	30VDC~53VDC	I/P:TESTING O/P:FULL LOAD Ta:25°C	29.5VDC~53VDC	P
2	EFFICIENCY	93% (Typ)	I/P:48VDC O/P:FULL LOAD Ta:25°C	93.18%	P
3	DC CURRENT	700 mA / FULL LOAD (Max) 50 mA / NO LOAD (Max)	I/P:48VDC O/P:NO / FULL LOAD Ta:25°C	678 mA / FULL LOAD 34 mA / NO LOAD	P

PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	OVER LOAD PROTECTION	120% ~ 220% (Typ)	I/P:48VDC O/P:TESTING Ta:25°C	125% 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:48VDC O/P:FULL LOAD Ta:25°C	POWER ON : 0.57VDC OR OPEN POWER OFF : 0.46VDC 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:48VDC O/P:FULL LOAD Ta=25°C 2. HIGH AMBIENT BURN-IN : 3HRS I/P:48VDC O/P:FULL LOAD Ta=55°C 3. HIGH AMBIENT BURN-IN : 3HRS I/P:48VDC O/P:50% LOAD Ta=65°C			P																															
		<table border="1"> <thead> <tr> <th>NO</th> <th>Position</th> <th>1</th> <th>2</th> <th>3</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>O/P C</td> <td>45.2°C</td> <td>78.0°C</td> <td>84.8°C</td> </tr> <tr> <td>2</td> <td>O/P L1</td> <td>61.5°C</td> <td>103.0°C</td> <td>98.7°C</td> </tr> <tr> <td>3</td> <td>U1</td> <td>62.5°C</td> <td>94.5°C</td> <td>98.2°C</td> </tr> <tr> <td>4</td> <td>O/P Q</td> <td>65.7°C</td> <td>97.7°C</td> <td>96.7°C</td> </tr> <tr> <td>5</td> <td>I/P C</td> <td>59.5°C</td> <td>91.7°C</td> <td>94.0°C</td> </tr> </tbody> </table>			NO	Position	1	2	3	1	O/P C	45.2°C	78.0°C	84.8°C	2	O/P L1	61.5°C	103.0°C	98.7°C	3	U1	62.5°C	94.5°C	98.2°C	4	O/P Q	65.7°C	97.7°C	96.7°C	5	I/P C	59.5°C	91.7°C	94.0°C		
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2	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 3 HOURS	I/P:48VDC 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