

# Quality Engineering Test Report

**SERIES: SLW05A 5W DC-DC SINGLE OUTPUT CONVERTER**

**SAMPLE:**      **A:SLW05A-05      +5V / 1000mA**  
                   **B:SLW05A-09      +9V / 556mA**  
                   **C:SLW05A-12      +12V / 417mA**  
                   **D:SLW05A-15      +15V / 333mA**

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT
1	DC INPUT VOLTAGE RANGE	I/P : TESTING      SPEC : 9~18VDC O/P : FULL LOAD	A:5.8~18VDC	P
2	LINE REGULATION	I/P : 9~18VDC      SPEC : $\pm 0.2\%$ O/P : FULL LOAD	A:-0%~+0% B:-0%~+0% C:-0%~+0% D:-0%~+0%	P
3	LOAD REGULATION	I/P : 12VDC      SPEC : $\pm 1\%$ O/P : MIN. TO FULL LOAD	A:-0.2%~+0% B:-0.1%~+0% C:-0.1%~+0% D:-0.1%~+0%	P
4	OUTPUT VOLTAGE TOLERANCE	I/P : 9~18VDC      SPEC : NONE O/P : MIN. TO FULL LOAD	A:-0.2%~+0% B:-0.1%~+0% C:-0.1%~+0% D:-0.1%~+0%	P
5	RIPPLE & NOISE	I/P : 12VDC      SPEC : 100mV O/P : FULL LOAD	A:20mV B:20mV C:10mV D:10mV	P
6	DC INPUT CURRENT	I/P : 12VDC      SPEC : NONE O/P : FULL LOAD	A:0.54A	P
7	OVER LOAD PROTECTION	I/P : 12VDC      SPEC : NONE O/P : TESTING	A:179% B:183% C:195% D:212%	P
8	O/P VOLTAGE ACCURACY	I/P : 12VDC      SPEC : $\pm 2\%$ O/P : MIN. LOAD	A:+0.4% B:+1.1% C:+1.1% D:+0.4%	P
9	SET UP TIME	I/P : 12VDC      SPEC : NONE O/P : FULL LOAD	A:1.8mS	P
10	HOLD UP TIME	I/P : 12VDC      SPEC : NONE O/P : FULL LOAD	A:0.23mS	P
11	EFFICIENCY	I/P : 12VDC      SPEC : 73% O/P : FULL LOAD	A:77.1% B:79.5% C:79.4% D:80.7%	P
12	INSULATION RESISTANCE	SPEC : I/P – O/P 500VDC/1000M $\Omega$ MIN.	A:I/P – O/P > 100M $\Omega$	P
13	DIELECTRIC / WITHSTAND VOLTAGE	SPEC : I/P – O/P : 1000VDC/ 1 min (10mA CUT-OFF)	A:NO BREAK I/P – O/P : < 0.02mA	P

**NEXT**

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT								
14	BURN-IN TEST	I/P:12VDC TA:25 °C O/P:FULL LOAD BURN-IN DURATION : 4 hrs	A:NO BREAK	P								
15	TEMPERATURE RISE TEST $\Delta T$ OF PARTS	A:I/P : 12VDC O/P : FULL LOAD TA : 25 °C AFTER 4 hrs BURN-IN	<table border="1"> <thead> <tr> <th>POSITION</th> <th>SAMPLE</th> <th>TEMP</th> <th><math>\Delta T</math></th> </tr> </thead> <tbody> <tr> <td>CASE</td> <td>SLW05A-05</td> <td>44.2 °C</td> <td>19.2 °C</td> </tr> </tbody> </table>	POSITION	SAMPLE	TEMP	$\Delta T$	CASE	SLW05A-05	44.2 °C	19.2 °C	P
POSITION	SAMPLE	TEMP	$\Delta T$									
CASE	SLW05A-05	44.2 °C	19.2 °C									
16	CONSTRUCTION INSPECTION ( FOR QC INSPECTION REFERENCE ONLY )	A: 1. PACKING : 泡棉加紙盒包裝 2. MARKING : MODEL 3. MECHANICAL : FIVE-SIDED SHIELD METAL CASE 4. DIMENSIONS : WXHxD=31.8X12.2X20.3mm										
DATE	SAMPLE	TEST RESULT	TEST	APPROVAL								
1998.08.15	SLW05A-05	PASS	鄭讚國	MAX LIN								
1998.11.26	SLW05A-09 SLW05A-12 SLW05A-15	PASS	鄭讚國	MAX LIN								