

# Quality Engineering Test Report

**SERIES: SLW05B 5W DC-DC SINGLE OUTPUT CONVERTER**

**SAMPLE:**    **A:SLW05B-05                    +5V / 1000mA**  
                   **B:SLW05B-09                    +9V / 556mA**  
                   **C:SLW05B-12                    +12V / 417mA**  
                   **D:SLW05B-15                    +15V / 333mA**

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT								
1	DC INPUT VOLTAGE RANGE	I/P : TESTING                    SPEC : 18~36VDC O/P : FULL LOAD	A:11~36VDC	P								
2	LINE REGULATION	I/P : 18~36VDC                SPEC : ±0.2%(MAX.) O/P : FULL LOAD	A:-0%~+0% B:-0%~+0% C:-0%~+0% D:-0%~+0%	P								
3	LOAD REGULATION	I/P : 24VDC                    SPEC : ±1% O/P : MIN. TO FULL LOAD	A:-0%~+0% B:-0.1%~+0% C:-0.1%~+0% D:-0.1%~+0%	P								
4	OUTPUT VOLTAGE TOLERANCE	I/P : 18~36VDC                SPEC : NONE O/P : MIN. TO FULL LOAD	A:-0.1%~+0% B:-0.1%~+0% C:-0.1%~+0% D:-0.1%~+0%	P								
5	RIPPLE & NOISE	I/P : 24VDC                    SPEC : 100mV O/P : FULL LOAD	A:20mV B:20mV C:22mV D:12mV	P								
6	DC INPUT CURRENT	I/P : 24VDC                    SPEC : NONE O/P : FULL LOAD	A:0.26A	P								
7	OVER LOAD PROTECTION	I/P : 24VDC                    SPEC : NONE O/P : TESTING	A:183% B:171% C:246% D:212%	P								
8	O/P VOLTAGE ACCURACY	I/P : 24VDC                    SPEC : ±2% O/P : MIN. LOAD	A:+0.32% B:+0.67% C:+0.91% D:-0.40%	P								
9	SET UP TIME	I/P : 24VDC                    SPEC : NONE O/P : FULL LOAD	A:6.2mS	P								
10	EFFICIENCY	I/P : 24VDC                    SPEC : 73% O/P : FULL LOAD	A:80.0% B:82.6% C:82.6% D:82.1%	P								
11	INSULATION RESISTANCE	SPEC : I/P – O/P 500VDC/100MΩ MIN.	A:I/P – O/P > 100MΩ	P								
12	DIELECTRIC / WITHSTAND VOLTAGE	SPEC : I/P – O/P : 1000VDC/ 1 min (10mA CUT-OFF)	A:NO BREAK I/P – O/P : < 0.02mA	P								
13	BURN-IN TEST	I/P:24VDC                    O/P:FULL LOAD TA:25℃                    BURN-IN DURATION : 2 hrs	A:NO BREAK B:NO BREAK C:NO BREAK D:NO BREAK	P								
14	TEMPERATURE RISE TEST ΔT OF PARTS	A:I/P : 24VDC                    AFTER 4 hrs BURN-IN O/P : FULL LOAD                TA : 25℃	<table border="1" style="margin: auto; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">POSITION</th> <th style="width: 25%;">SAMPLE</th> <th style="width: 25%;">TEMP</th> <th style="width: 25%;">ΔT</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">CASE</td> <td style="text-align: center;">SLW05B-05</td> <td style="text-align: center;">42.0℃</td> <td style="text-align: center;">17.0℃</td> </tr> </tbody> </table>	POSITION	SAMPLE	TEMP	ΔT	CASE	SLW05B-05	42.0℃	17.0℃	P
POSITION	SAMPLE	TEMP	ΔT									
CASE	SLW05B-05	42.0℃	17.0℃									
15	CONSTRUCTION INSPECTION (FOR QC INSPECTION REFERENCE ONLY)	A: 1. PACKING : 上,下加泡棉再加紙盒包裝 2. MARKING : MODEL 3. MECHANICAL : FIVE-SIDED SHIELD METAL CASE 4. DIMENSIONS : LXWXH=50.8X25.4X11.27mm										
DATE		SAMPLE		TEST RESULT		TEST	APPROVAL					
1998.11.19		SLW05B-05 SLW05B-09 SLW05B-12 SLW05B-15		PASS		鄭讚國	MAX LIN					