

# Quality Engineering Test Report

SERIES: SKE15A 15W DC-DC SINGLE OUTPUT CONVERTER

SAMPLE:           A:     **SKE15A-05**     **+5V / 300~3000mA**  
                       B:     **SKE15A-12**     **+12V / 125~1250mA**  
                       D:     **SKE15A-24**     **+24V / 62.5~625mA**

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT
1	DC INPUT VOLTAGE RANGE	I/P:TESTING           SPEC: 9~18VDC O/P:FULL LOAD	B:8.4~18VDC	P
2	LINE REGULATION	I/P:9~18VDC           SPEC: $\pm 0.3\%$ O/P:FULL LOAD	A:    -0% ~ +0% B:    -0% ~ +0% D:    -0% ~ +0%	P
3	LOAD REGULATION	I/P:12VDC             SPEC: $\pm 0.5\%$ O/P:MIN. TO FULL LOAD	A:    -0.2% ~ +0.2% B:    -0% ~ +0% D:    -0% ~ +0.1%	P
4	OUTPUT VOLTAGE TOLERANCE	I/P:9~18VDC           SPEC: NONE O/P:MIN. TO FULL LOAD	A:    -0.2% ~ +0.2% B:    -0% ~ +0% D:    -0.1% ~ +0.1%	P
5	RIPPLE&NOISE	I/P:12VDC             SPEC: A:50mV B:60mV O/P:FULL LOAD           D:80mV	A: 15mV B: 13mV D: 20mV	P
6	DC INPUT CURRENT	I/P:12VDC             SPEC: 1.7A O/P:FULL LOAD	B:1.56A	P
7	O/P VOLTAGE ACCURACY	I/P:12VDC             SPEC: $\pm 2\%$ O/P:MIN. LOAD	A: -0.8%(4.96V) B: +0.2%(12.02V) D: -0.1%(23.98V)	P
8	EFFICIENCY	I/P:12VDC             SPEC: A:79% O/P:FULL LOAD           B:80% D:82%	A: 78.6% B: 80.2% D: 81.8%	P
9	OVER LOAD PROTECTION	I/P:12VDC             SPEC: 160~250% O/P:TESTING	A: 180% B: 179% D: 181%	P
10	INSULATION RESISTANCE	SPEC: I/P--O/P: 500VDC/100M Ohms MIN.	B: I/P--O/P >100M Ohms	P
11	DIELECTRIC / WITHSTAND VOLTAGE	SPEC: I/P--O/P: 1000VDC/ 1 min (10mA CUT-OFF)	B: I/P--O/P:<0.002mA	P

**NEXT**

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT								
12	BURN-IN TEST	I/P:12VDC TA:28°C O/P:FULL LOAD BURN-IN DURATION : 15 hrs	A: NO BREAK B: NO BREAK D: NO BREAK	P								
13	TEMPERATURE RISE TEST T rise OF PARTS	B: I/P :12VDC O/P :FULL LOAD AFTER 15 hrs BURN-IN TA:28°C <table border="1"> <thead> <tr> <th>POSITION</th> <th>SAMPLE</th> <th>TEMP</th> <th>Trise</th> </tr> </thead> <tbody> <tr> <td>CASE</td> <td>SKE15A-12</td> <td>49.8°C</td> <td>21.8°C</td> </tr> </tbody> </table>	POSITION	SAMPLE	TEMP	Trise	CASE	SKE15A-12	49.8°C	21.8°C		P
POSITION	SAMPLE	TEMP	Trise									
CASE	SKE15A-12	49.8°C	21.8°C									
14	CONSTRUCTION INSPECTION ( FOR QC INSPECTION REFERENCE ONLY )	1. PACKING : 軌道型塑膠包裝 2. MARKING : MODEL 3. MECHANICAL : MODULAR TYPE, PIN :1.0Øx5mm										
DATE	SAMPLE	TEST RESULT	TEST	APPROVAL								
9.5.2002	SKE15A-05 SKE15A-12 SKE15A-24	PASS	T.K.CHENG	MAX LIN								

[PREVIOUS](#)