

# Quality Engineering Test Report

**SERIES: SKE10C 10W DC-DC SINGLE OUTPUT CONVERTER**

**SAMPLE:**  
**A:SKE10C-05 5V / 2A**  
**B:SKE10C-12 12V / 0.84A**

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT								
1	DC INPUT VOLTAGE RANGE	I/P : TESTING SPEC : 36~72VDC O/P : FULL LOAD	A:29~72VDC	P								
2	LINE REGULATION	I/P : 36~72VDC SPEC : $\pm 0.3\%$ O/P : FULL LOAD	A: 0% ~ 0% B: -0.3% ~ +0.1%	P								
3	LOAD REGULATION	I/P : 48VDC SPEC : $\pm 1\%$ O/P : MIN. TO FULL LOAD	A: -0.2% ~ +0.4% B: -0.1% ~ +0.2%	P								
4	OUTPUT VOLTAGE TOLERANCE	I/P : 36~72VDC SPEC : NONE O/P : MIN. TO FULL LOAD	A: -0.2% ~ +0.4% B: -0.3% ~ +0.3%	P								
5	RIPPLE & NOISE	I/P : 48VDC SPEC : A:50mV O/P : FULL LOAD B:60mV	A: 23mV B: 20mV	P								
6	DC INPUT CURRENT	I/P : 48VDC SPEC : NONE O/P : FULL LOAD	A:0.26A	P								
7	O/P VOLTAGE ACCURACY	I/P : 48VDC SPEC : $\pm 2\%$ O/P : MIN. LOAD	A: 5.02V B: 12.1V	P								
8	SET UP TIME	I/P : 48VDC SPEC : NONE O/P : FULL LOAD	A:236mS	P								
9	EFFICIENCY	I/P : 48VDC SPEC : >76% O/P : FULL LOAD	A: 80.1% B: 87.5%	P								
10	OVER LOAD PROTECTION	I/P : 48VDC SPEC : NONE O/P : TESTING	A: 174% B: 167%	P								
11	INSULATION RESISTANCE	SPEC : I/P – O/P : 500VDC/100M $\Omega$ MIN.	A: I/P – O/P > 100M $\Omega$	P								
12	DIELECTRIC / WITHSTAND VOLTAGE	SPEC : I/P – O/P : 500VDC/ 1 min (10mA CUT-OFF)	A: I/P – O/P : < 0.5mA	P								
13	BURN-IN TEST	I/P:48VDC O/P:FULL LOAD TA:22 $^{\circ}$ C BURN-IN DURATION : 4 hrs	A: NO BREAK B: NO BREAK	P								
14	TEMPERATURE RISE TEST $\Delta T$ OF PARTS	A: I/P : 48VDC AFTER 4 hrs BURN-IN O/P : FULL LOAD TA : 24 $^{\circ}$ C <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">POSITION</th> <th style="width: 20%;">SAMPLE</th> <th style="width: 20%;">TEMP</th> <th style="width: 20%;"><math>\Delta T</math></th> </tr> </thead> <tbody> <tr> <td>CASE</td> <td>SKE10C-05</td> <td>49.7<math>^{\circ}</math>C</td> <td>25.7<math>^{\circ}</math>C</td> </tr> </tbody> </table>		POSITION	SAMPLE	TEMP	$\Delta T$	CASE	SKE10C-05	49.7 $^{\circ}$ C	25.7 $^{\circ}$ C	P
POSITION	SAMPLE	TEMP	$\Delta T$									
CASE	SKE10C-05	49.7 $^{\circ}$ C	25.7 $^{\circ}$ C									
15	CONSTRUCTION INSPECTION ( FOR QC INSPECTION REFERENCE ONLY )	1. PACKING : 以塑膠泡墊保護PIN腳,再以紙盒包裝 2. MARKING : MODEL LABELx1 3. MECHANICAL : MODULAR TYPE, PIN OUTPUT:1.0 $\phi$ x7mm										
DATE	SAMPLE	TEST RESULT	TEST	APPROVAL								
980729	SKE10C-05 SKE10C-12	PASS	鄭讚國	MAX LIN								