

Quality Engineering Test Report

SERIES: DKE10C 10W DC-DC DUAL OUTPUT CONVERTER

SAMPLE:

A:	DKE10C-05	V1: +5V / 1A
		V2: -5V / 1A
B:	DKE10C-12	V1:+12V / 0.625A
		V2:-12V / 0.625A
C:	DKE10C-15	V1:+15V / 0.5A
		V2:-15V / 0.5A

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: V1: -0% ~ +0.2% V2: -0.1% ~ +0% B: V1: -0% ~ +0% V2: -0.1% ~ +0% C: V1: -0% ~ +0.2% V2: -0.2% ~ +0.3%	P
3	LOAD REGULATION	I/P : 48VDC SPEC : $\pm 2\%$ O/P : MIN. TO FULL LOAD	A: V1: -0% ~ +0% V2: -0.4% ~ +0.2% B: V1: -0% ~ +0% V2: -0.1% ~ +0.1% C: V1: -0.1% ~ +0.1% V2: -0.1% ~ +0%	P
4	OUTPUT VOLTAGE TOLERANCE	I/P : 36~72VDC SPEC : NONE O/P : MIN. TO FULL LOAD	A: V1: -2.4% ~ +2.8% V2: -2.8% ~ +2.8% B: V1: -1.4% ~ +1.3% V2: -1.4% ~ +1.3% C: V1: -1.3% ~ +1.6% V2: -1.6% ~ +1.4%	P
5	RIPPLE & NOISE	I/P : 48VDC SPEC : A:50mV O/P : FULL LOAD B:60mV C:60mV	A: V1: 25mV V2: 23mV B: V1: 15mV V2: 13mV C: V1: 13mV V2: 10mV	P
6	DC INPUT CURRENT	I/P : 48VDC SPEC : NONE O/P : FULL LOAD	A:0.25A	P
7	O/P VOLTAGE ACCURACY	I/P : 48VDC SPEC : $\pm 2\%$ O/P : MIN. LOAD	A: V1: +5.09V V2: -5.09V B: V1: +12.09V V2: -12.08V C: V1: +15.09V V2: -15.12V	P
8	SET UP TIME	I/P : 48VDC SPEC : NONE O/P : FULL LOAD	A:120.0mS	P
9	EFFICIENCY	I/P : 48VDC SPEC : 76% O/P : FULL LOAD	A: 84.7% B: 85.1% C: 86.5%	P
10	OVER LOAD PROTECTION	I/P : 48VDC SPEC : NONE O/P : TESTING	A: 160% B: 168% C: 164%	P
11	INSULATION RESISTANCE	SPEC : I/P – O/P : 500VDC/100M Ω MIN.	A: I/P – O/P > 100M Ω	P

NO	TEST ITEM	TEST CONDITION / SPECIFICATION	RESULT	VERDICT								
12	DIELECTRIC / WITHSTAND VOLTAGE	SPEC : I/P – 500VDC/ 1 min O/P : (10mA CUT-OFF)	A: I/P – O/P : < 0.05mA	P								
13	BURN-IN TEST	I/P:48VDC O/P:FULL LOAD TA:23 °C BURN-IN DURATION : 4 hrs	A: NO BREAK B: NO BREAK C: NO BREAK	P								
14	TEMPERATURE RISE TEST ΔT OF PARTS	A: I/P : 48VDC AFTER 4 hrs BURN-IN O/P : FULL LOAD TA : 23 °C	<table border="1"> <thead> <tr> <th>POSITION</th> <th>SAMPLE</th> <th>TEMP</th> <th>ΔT</th> </tr> </thead> <tbody> <tr> <td>CASE</td> <td>DKE10C-05</td> <td>45.5°C</td> <td>22.3°C</td> </tr> </tbody> </table>	POSITION	SAMPLE	TEMP	ΔT	CASE	DKE10C-05	45.5°C	22.3°C	P
POSITION	SAMPLE	TEMP	ΔT									
CASE	DKE10C-05	45.5°C	22.3°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:1.0Φx7mm										
DATE	SAMPLE	TEST RESULT	TEST	APPROVAL								
1999.1.27	DKE10C-05 DKE10C-12 DKE10C-15	PASS	鄭讚國	MAX LIN								