

MODEL : DR-UPS40

DC INPUT / DC BUS

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	DC VOLTAGE RANGE (TYP)	24V~29V	I/P: TESTING O/P:FULL LOAD Ta:25°C	23.68V~29.16 V	P
2	RATED CURRENT	40A	I/P: 24 VDC O/P:FULL LOAD Ta:25°C	OK	P

BATTERY INPUT / OUTPUT

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	VOLTAGE RANGE (TYP)	21VDC~29VDC	I/P: TESTING O/P: BATTERY Ta:25°C	20.76V~29V	P
2	CURRENT RANGE	0~40A	I/P: 23V O/P: BATTERY Ta:25°C	OK	P
3	CHARGE CURRENT (TYP)	2A	I/P: 24.5VDC O/P:BATTERY Ta:25°C	2.1A	P
4	EXTERNAL BATTERY (TYP)	4 / 7 / 12AH /24V	I/P: 24VDC O/P:BATTERY Ta:25°C	OK	P

FUNCTION TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	RELAY CONTACT RATING	30VDC / 1A (MAX)	I/P: 30VDC O/P:1A Ta:25°C	OK	P
2	DC BUS OK	Relay contact : short when DC voltage Between 21~29V (+.3%), relay contacts ; Green LED on front panel LED (Green) : DC BUS OK : light : DC BUS fail : dark	I/P: TESTING O/P:FULL LOAD Ta:25°C	OK	P
3	BATTERY FAIL	Relay contact : short when battery failure Is observed through the battery test Function, relay contacts ; Red LED on front panel LED(Green): DC BUS OK : light : DC BUS fail : dark	I/P: TESTING O/P:FULL LOAD Ta:25°C	OK	P
4	BATTERY DISCHARGE	Relay contact : short when battery in discharge condition relay contacts ; Yellow LED on front panel LED(Green) : DC BUS OK : light : DC BUS fail : dark	I/P: TESTING O/P:FULL LOAD Ta:25°C	OK	P

ENVIRONMENT TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT																																																																											
1	TEMPERATURE RISE TEST	MODEL : DR-UPS40 1. ROOM AMBIENT BURN-IN : 1HRS I/P: 24VDC O/P: FULL LOAD Ta= 32.7°C 2. HIGH AMBIENT BURN-IN : 1HRS I/P: 24VDC O/P: FULL LOAD Ta= 69.8°C																																																																														
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2	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P: 24VDC O/P: 100% LOAD Ta= -20 °C	TEST : OK	P																																																																											
3	HIGH HUMIDITY HIGH TEMPERATURE HIGH VOLTAGE TURN ON TEST	AFTER 12 HOURS IN CHAMBER ON CONTROL 70°C NO DAMAGE	I/P: 24VDC O/P: FULL LOAD Ta= 70°C HUMIDITY= 95 %R.H	TEST : OK	P																																																																											
4	VIBRATION TEST	1 Carton & 1 Set (1) Waveform: Sine Wave (2) Frequency: 10~500Hz (3) Sweep Time: 10min/sweep cycle (4) Acceleration: 2G (5) Test Time: 1 hour in each axis (X.Y.Z) (6) Ta: 25°C		TEST : OK	P																																																																											

SAFETY TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	WITHSTAND VOLTAGE	Terminal-chassis: 0.5 KVAC/min Relay contacts-Terminal: 0.5 KVAC/min	Terminal-chassis: 0.6 KVAC/min Relay contacts-Terminal: 0.6 KVAC/min Ta: 25°C	Terminal-chassis: 0.06 mA Relay contacts-Terminal: 0.06 mA NO DAMAGE	P
2	ISOLATION RESISTANCE	Terminal-chassis : 500VDC > 100MΩ	Terminal-chassis : 500 VDC Ta: 25°C	Terminal-chassis 16 GΩ NO DAMAGE	P

E.M.C TEST

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	CONDUCTION	EN55022 CLASS B	I/P: 24VDC O/P:FULL/50% LOAD Ta:25°C	PASS Test by certified Lab	P
2	RADIATION	EN55022 CLASS B	I/P: 24VDC O/P:FULL/50% LOAD Ta:25°C	PASS Test by certified Lab	P
3	E.S.D	EN61000-4-2 INDUSTRY AIR:8KV / Contact:4KV	I/P: 24VDC O/P:FULL/50% LOAD Ta:25°C	CRITERIA A	P
4	E.F.T	EN61000-4-4 INDUSTRY V+ / V-: 0.5KV	I/P: 24VDC O/P:FULL/50% LOAD Ta:25°C	CRITERIA A	P
5	SURGE	IEC61000-4-5 INDUSTRY V+ / V- :0.5KV V+,V- / PE : 0.5KV	I/P: 24VDC O/P:FULL/50% LOAD Ta:25°C	CRITERIA A	P
6	Test by certified Lab & Test Report Prepare				

M.T.B.F & LIFE CYCLE CALCULATION

NO	TEST ITEM	SPECICATION	TEST CONDITION	RESULT	VERDICT
1	CAPACITOR LIFE CYCLE	SUPPOSE C1 IS THE MOST CRITICAL COMPONENT I/P: 24VDC O/P:FULL LOAD Ta= 25 °C LIFE TIME= 966988 HRS I/P: 24VDC O/P:FULL LOAD Ta= 70 °C LIFE TIME= 50120 HRS			P
2	MTBF	MIL-HDBK-217F NOTICES2 PARTS COUNT TOTAL FAILURE RATE: 161.9KHS			P

DATE	SAMPLE	TEST RESULT	TESTER	APPROVAL
2007/1/16	RD SAMPLE	PASS	VINCENT TSENG	MAX LIN
2007/3/10	PRODUCT SAMPLE W0702A10	PASS	VINCENT TSENG	MAX LIN
2007/5/9	PRODUCT SAMPLE W0704C05	PASS	VINCENT TSENG	MAX LIN
2007/8/31	PRODUCT SAMPLE W0708D06	PASS	VINCENT TSENG	MAX LIN

2003/12/12 A50-F023