



# TEST REPORT

MODEL NAME : UPF100S36CP2

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## 1. DESIGN VERIFY TEST

### 1-1. INPUT FUNCTION TEST

TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
VOLTAGE RANGE	180~264VAC	I/P: testing O/P:full load Ta:25 °C	test ok	P
FREQUENCY RANGE	47~63Hz no damage osc	I/P:180~264VAC O/P:full~min. load Ta:25 °C	test ok	P
POWER FACTOR	0.95 min.	I/P:220VAC O/P:full load	PF=0.998/220VAC	P
EFFICIENCY	90% typ.	I/P:220VAC O/P:full load Ta:25 °C	90.5%	P
AC CURRENT	0.45A/220VAC typ.	I/P:220VAC O/P:full load Ta:25 °C	0.458A/220VAC	P
INRUSH CURRENT	10A typ.	I/P:220VAC O/P:full load Ta:25 °C	9.72A	P
LEAKAGE CURRENT	2.5mA max.	I/P:220VAC O/P:min. load Ta:25 °C	0.51mA	P

### 1-2. OUTPUT FUNCTION TEST

TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
CONSTANT CURRENT REGION	O/P:20~36V/2.5A±5%	I/P:220VAC O/P:CV mode Ta:25 °C	O/P=20V:2.507A O/P=36V:2.512A	P
CURRENT ADJ. RANGE	2.5A-35%/+10%	I/P:220VAC O/P:full load Ta:25 °C	1.5~2.84A	P
RIPPLE&NOISE	3500mVp-p max.	I/P:220VAC O/P:full load Ta:25 °C	2940mV p-p	P

SETUP TIME	3000ms/220VAC max.	I/P:220VAC O/P:full load Ta:25 °C	1040ms/220VAC	P
RISE TIME	100ms/220VAC max.	I/P:220VAC O/P:full load Ta:25	56ms/220VAC	P

### 1-3. PROTECTION FUNCTION TEST

TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
SHORT PROTECTION	short every output 1 hour no damage	I/P:264VAC O/P:full load Ta:25 °C	no damage, recovers automatically after fault removed	P

### 2. SAFETY & EMC TEST

TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC/1min<10mA I/P-F/G:2KVAC/1min<10mA O/P-F/G:1.5KVAC/1min<10mA	I/P-O/P:3.75KVAC/1min I/P-F/G:2KVAC/1min O/P-F/G:1.5KVAC/1min Ta:25 °C	I/P-O/P:3.85mA I/P-F/G:2.78mA O/P-F/G:2.3mA no damage	P
ISOLATION RESISTANCE	I/O-O/P:500VDC>100MΩ I/O-F/G:500VDC>100MΩ O/P-F/G:500VDC>100MΩ	I/P-O/P:500VDC I/P-F/G:500VDC O/P-F/G:500VDC Ta:25 °C	I/P-O/P: ∞ I/P-F/G: ∞ O/P-F/G: ∞ no damage	P
SURGE	IEC61000-4-5 industry L-N:4KV L,N-PE:6KV	I/P:220VAC/50Hz O/P:full load Ta:25 °C	criteria A	P

### 3. RELIABILITY TEST

TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
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<b>LOW TEMP. TURN ON TEST</b>	turn on after 2hour	I/P:220VAC O/P:full load Ta:-40 °C	test ok	<b>P</b>
<b>STORAGE TEMP. TEST</b>	no damage	1.thermal shock temp.: -40~+80°C 2.test time low & high temp.:30min/each 3.total cycle:5cycle 4.input/output condition:static	test ok	<b>P</b>
<b>HIGH VOLT. HIGH TEMP. HIGH HUMI. TEST</b>	no damage after 12hour	I/P:264VAC O/P:full load Ta:70 °C HUMI.:95%RH	test ok	<b>P</b>
<b>THERMAL SHOCK TEST</b>	no damage	1.thermal shock temp.: -30~+70°C 2.test time low & high temp.:30min/each 3.total cycle:10cycle 4.input/output condition: 230VAC full load, AC on/off test (turn on 58sec,turn off 2sec)	test ok	<b>P</b>
<b>VIBRATION TEST</b>	no damage	1.CATON&1SET 1.wave form:sine wave 2.frequency:10~500Hz 3.sweep time:12min./sweep cycle 4.acceleration:5G 5.test time:72min. in each(X,Y,Z) 6.Ta:25 °C	test ok	<b>P</b>