



TEST REPORT

MODEL NAME : UPF15S90NI

1. DESIGN VERIFY TEST
 - 1-1. INPUT FUNCTION TEST
 - 1-2. OUTPUT FUNCTION TEST
 - 1-3. PROTECTION FUNCTION TEST
2. SAFETY&EMC TEST
3. RELIABILITY TEST

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	0.9 min.	I/P:230VAC O/P:full load	PF=0.968/230VAC	P
EFFICIENCY	90% typ.	I/P:230VAC O/P:full load Ta:25 °C	91.6%	P
AC CURRENT	0.07A/230VAC typ.	I/P:230VAC O/P:full load Ta:25 °C	0.07A/230VAC	P
INRUSH CURRENT	40A typ.	I/P:230VAC O/P:full load Ta:25 °C	9.68A	P

1-2. OUTPUT FUNCTION TEST

TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
RIPPLE&NOISE	10Vp-p max.	I/P:230VAC O/P:full load Ta:25 °C	2440mV p-p	P
SETUP TIME	3000ms/230VAC max.	I/P:230VAC O/P:full load Ta:25 °C	188ms/230VAC	P
RISE TIME	100ms/230VAC max.	I/P:230VAC O/P:full load Ta:25	22ms/230VAC	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
SURGE	IEC61000-4-5 industry L-N:2KV L,N-PE:1KV	I/P:230VAC/50Hz O/P:full load Ta:25°C	criteria A	P

3. RELIABILITY TEST

TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
LOW TEMP. TURN ON TEST	turn on after 2hour	I/P:230VAC O/P:full load Ta:-40°C	test ok	P
STORAGE TEMP. TEST	no damage	1.thermal shock temp.: -40~+70°C 2.test time low & high temp.:30min/each 3.total cycle:5cycle 4.input/output condition:static	test ok	P
HIGH VOLT. HIGH TEMP. HIGH HUMI. TEST	no damage after 12hour	I/P:264VAC O/P:full load Ta:50°C HUMI.:95%RH	test ok	P
THERMAL SHOCK TEST	no damage	1.thermal shock temp.: -30~+50°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	P

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VIBRATION TEST	no damage	1.CATON&1SET 1.wave form:sine wave 2.frequency:10~500Hz 3.sweep time:12min./sweep cycle 4.acceleration:3G 5.test time:72min. in each(X,Y,Z) 6.Ta:25 °C	test ok	P
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