



TEST REPORT

MODEL NAME : UPF30S36CQHP

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

Test Report : UPF30S36CQHP

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=0.97/230VAC	P
EFFICIENCY	85% typ.	I/P:230VAC O/P:full load Ta:25 °C	85.31%	P
AC CURRENT	0.12A/230VAC typ.	I/P:230VAC O/P:full load Ta:25 °C	0.13A/230VAC	P
INRUSH CURRENT	10A typ. cold start	I/P:230VAC O/P:full load Ta:25 °C	5A	P

1-2. OUTPUT FUNCTION TEST

TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
OPERATING VOLTAGE RANGE	O/P:40V/0.7A±5%	I/P:230VAC O/P:CV mode Ta:25 °C	O/P=40V:0.7A O/P=26V:0.78A	P
CURRENT ADJ. RANGE	0.7A-40%/+10%	I/P:230VAC O/P:full load Ta:25 °C	0.4~0.78A	P
RIPPLE&NOISE	3000mVp-p max.	I/P:230VAC O/P:full load Ta:25 °C	1700mV	P
SETUP TIME	3000ms/230VAC max.	I/P:230VAC O/P:full load Ta:25 °C	284ms/230VAC	P

Test Report : UPF30S36CQHP

RISE TIME	100ms/230VAC max.	I/P:230VAC O/P:full load Ta:25	26.2ms/230VAC	P
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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
OVER VOLTAGE PROTECTION	115~140%	I/P:230VAC O/P:min. load Ta:25 °C	120%/230VAC recovers automatically after fault removed	P

2. SAFETY TEST

TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT	VERDICT
WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC/1min<10mA	I/P-O/P:3.75KVAC/1min Ta:25 °C	I/P-O/P:1.7mA no damage	P
ISOLATION RESISTANCE	I/O-O/P:500VDC>100MΩ	I/P-O/P:500VDC Ta:25 °C	I/P-O/P:∞ no damage	P
SURGE	IEC61000-4-5 industry L-N:4KV	I/P:230VAC/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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Test Report : UPF30S36CQHP

LOW TEMP. TURN ON TEST	turn on after 2hour	I/P:230VAC O/P:full load Ta:-20℃	test ok	P
STORAGE TEMP. TEST	no damage	1.thermal shock temp.: -40~+80℃ 2.test time low & high temp.:30min/each 3.total cycle:5cycle 4.input/output condition:static	test ok	P
THERMAL SHOCK TEST	no damage	1.thermal shock temp.: -20~+50℃ 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
VIBRATION TEST	no damage	1.CATON&1SET 1.wave form:sine wave 2.frequency:10~500Hz 3.sweep time:10min./sweep cycle 4.acceleration:2G 5.test time:60min. in each(X,Y,Z) 6.Ta:25℃	test ok	P