



TEST REPORT

MODEL NAME : UPF30S30-C7P

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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 | 0.9 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 |

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| 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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| 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.: -40~+70℃ 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 |