

Model : DCW08A-05 8W
 V1:+5V / 160~800mA
 V2:-5V / 160~800mA

OUTPUT FUNCTION TEST

| NO | TEST ITEM | SPECICATION | TEST CONDITION | RESULT | VERDICT |
|----|-------------------------|--|---|--|---------|
| 1 | OUTPUT VOLTAGE ACCURACY | V1 : -2%~+2% (Max.) V2 : -2%~+2% (Max.) | I/P: 12VDC O/P:50% LOAD Ta:25°C | V1 : -1.08% V2 : -1.06% | P |
| 2 | RIPPLE & NOISE | V1 : 50mVp-p (Max.) V2 : 50mVp-p (Max.) | I/P:12VDC O/P:FULL LOAD Ta:25°C | V1 : 18mVp-p V2 : 20mVp-p | P |
| 3 | LINE REGULATION | V1 : -0.5%~+0.5% (Max.) V2 : -0.5%~+0.5% (Max.) | I/P:9VDC ~18VDC O/P:FULL LOAD Ta:25°C | V1 : -0%~+0% V2 : -0.02%~+0% | P |
| 4 | LOAD REGULATION | V1 : -0.5%~+0.5% (Max.) V2 : -0.5%~+0.5% (Max.) | I/P:12VDC O/P: MIN ~FULL LOAD Ta:25°C | V1 : -0.04%~+0.02% V2 : -0.02%~+0.02% | P |

INPUT FUNCTION TEST

| NO | TEST ITEM | SPECICATION | TEST CONDITION | RESULT | VERDICT |
|----|---------------------|---|---|-------------------------------------|---------|
| 1 | INPUT VOLTAGE RANGE | 9VDC~18VDC | I/P:TESTING O/P:FULL LOAD Ta:25°C | 7.8VDC~18VDC | P |
| 2 | EFFICIENCY | 75% (Typ) | I/P:12VDC O/P:FULL LOAD Ta:25°C | 76.96% | P |
| 3 | INPUT CURRENT | 888mA / FULL LOAD (Max.) 50mA / NO LOAD (Max.) | I/P:12VDC O/P:TESTING Ta:25°C | 858mA / FULL LOAD 14mA / NO LOAD | P |

PROTECTION FUNCTION TEST

| NO | TEST ITEM | SPECICATION | TEST CONDITION | RESULT | VERDICT |
|----|----------------------|--|-------------------------------------|--|---------|
| 1 | OVER LOAD PROTECTION | 110%~250% (Typ) | I/P:12VDC O/P:TESTING Ta:25°C | 130% HICCUP MODE AUTO-RECOVER | P |
| 2 | SHORT PROTECTION | SHORT EVERY OUTPUT 1 HOUR NO DAMAGE | I/P:18VDC O/P:SHORT Ta:25°C | NO DAMAGE HICCUP MODE AUTO-RECOVER | P |

ENVIRONMENT TEST

| NO | TEST ITEM | SPECICATION | TEST CONDITION | RESULT | VERDICT | | | | | | | |
|----------|-------------------------------|--|---|-----------|---------|---|---|------|--------|--------|--------|--|
| 1 | TEMPERATURE RISE TEST | 1. ROOM AMBIENT BURN-IN : 4HRS I/P:12VDC O/P: FULL LOAD Ta= 25°C 2. HI AMBIENT BURN-IN : 4HRS I/P:12VDC O/P: FULL LOAD Ta= 60°C | | | P | | | | | | | |
| | | <table border="1"> <thead> <tr> <th>Position</th> <th>P/N</th> <th>1</th> <th>2</th> </tr> </thead> <tbody> <tr> <td>CASE</td> <td>CENTER</td> <td>58.3°C</td> <td>92.6°C</td> </tr> </tbody> </table> | Position | P/N | | 1 | 2 | CASE | CENTER | 58.3°C | 92.6°C | |
| Position | P/N | 1 | 2 | | | | | | | | | |
| CASE | CENTER | 58.3°C | 92.6°C | | | | | | | | | |
| 2 | LOW TEMPERATURE TURN ON TEST | TURN ON AFTER 2 HOURS | I/P:12VDC O/P:FULL LOAD Ta= -25°C | TEST : OK | P | | | | | | | |
| 3 | HIGH TEMPERATURE BURN IN TEST | NO DAMAGE | I/P:12VDC O/P:FULL LOAD Ta= 60°C | TEST : OK | P | | | | | | | |

SAFETY TEST

| NO | TEST ITEM | SPECICATION | TEST CONDITION | RESULT | VERDICT |
|----|----------------------|----------------------|-----------------------------------|-------------------------------|---------|
| 1 | WITHSTAND VOLTAGE | I/P-O/P:1.5K VDC/min | I/P-O/P:1.5KVDC/ 1 min Ta:25°C | I/P-O/P: 0.002mA NO DAMAGE | P |
| 2 | ISOLATION RESISTANCE | I/P-O/P:500VDC>100MΩ | I/P-O/P:500 VDC Ta:25°C | I/P-O/P>100MΩ NO DAMAGE | P |

| DATE | SAMPLE | TEST RESULT | TESTER | APPROVAL |
|-----------|--------|-------------|--------|--------------|
| 2022.3.12 | 2212R | PASS | PETER | VINCENT ZENG |