

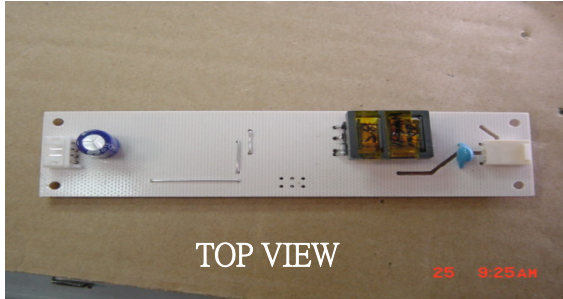


WIDE RANGE INVERTER SPECIFICATION SHEET

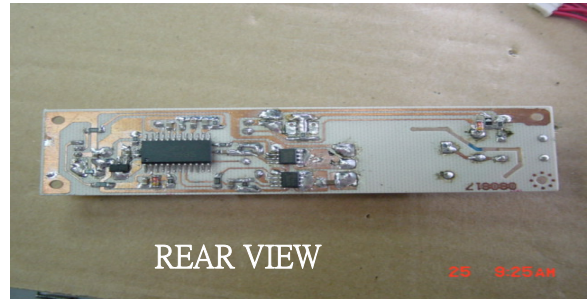
MODEL: GIVEV1WR01-AA

1 GENERAL

These specifications are applied to a variety of types CCFL driving (Diameter Coverage Spec: $\varphi 2.0 \sim \varphi 4.8$ / Length Coverage Spec: 90 ~ 480 mm) with a one Lamp Inverter (Model: GIVEV1WR01-AA).



TOP VIEW



REAR VIEW

2 ELECTRICAL CHARACTERISTICS

** Loaded with CCFL

| PARAMETER | SYMB(UNIT) | MIN. | NOM. | MAX. | REMARK |
|-----------------------------------|------------|------|------|-------|---------------------------|
| INPUT VOLTAGE | Vin (V) | 10.8 | 12.0 | 13.2 | |
| INPUT CURRENT | Iin (mA) | 460 | 500 | 650.0 | |
| EFFICIENCY | Eff (%) | 80 | 90 | — | |
| OPEN VOLTAGE | Vopen (V) | — | 1800 | — | |
| OUTPUT CURRENT adj: 3.3V (max) | JE1(mArms) | 7.5 | 8 | 8.5 | JE1 SHORT 8 mA |
| OUTPUT CURRENT adj: 0 V (min) | JE2(mArms) | 5.5 | 6 | 6.5 | JE2 SHORT 6 mA |
| PWM Dimming | % | 18 | — | 100 | 0 ~ 3.3V |
| Working Frequency | Lo. (KHz) | — | 58 | — | Freq tracked by TG3695 IC |

3. PIN ASSIGNMENT

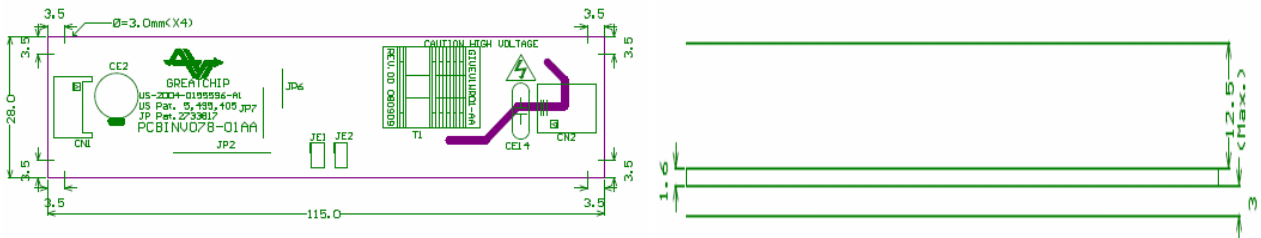
DC INPUT (CN1) S5B-PH-SM3-TB(JST)

| PIN NO. | SYMBOL |
|---------|---------|
| 1 | Vcc |
| 2~3 | GND |
| 4 | On/Off |
| 5 | Dimming |

AC OUTPUT (CN2) SM02B-BHSS-1-TB(JST)

| PIN NO. | SYMBOL |
|---------|--------|
| 1 | HV |
| 2 | Return |

4. DIMENSION



5. TEMPERATURE & HUMIDITY RANGE

| | | |
|-------------|-----------|-----------------------------|
| TEMPERATURE | Operating | 0 ~ 50°C |
| | Storage | -25 ~ 60°C |
| HUMIDITY | Operating | 20 ~ 95%RH, Without dewdrop |
| | Storage | 5 ~ 95% RH, Without dewdrop |



WIDE RANGE INVERTER SPECIFICATION SHEET

MODEL: GIVEV1WR01-AA

Wide Range Inverter Test Description:

This test data shows Greatchip Wide Range INVERTER applied with a variety of types of CCFL(s) in a coverage of Diameter Coverage Spec: $\varnothing 2.0 \sim \varnothing 4.8$ & Length Coverage Spec: 90 ~ 480 mm.

| No. | Length (mm) | Diameter | Color | Current | Vin | lin(A) | f | ImA | (V) | Mosfet | Trans | Duty% |
|-----|-------------|----------|--------|---------|-----|--------|-------|------|-----|--------|-------|-------|
| | | | | | | | | | | Temp | Temp | |
| 1 | 480 | 4.8 | White | 8mA | 12 | 0.54 | 52.07 | 8.03 | 688 | 38.0 | 41.0 | 35.4 |
| | | | | 6mA | 12 | 0.42 | 52.57 | 6.01 | 692 | 42.8 | 43.2 | 25.3 |
| 2 | 480 | 2.6 | White | 8mA | 12 | 0.65 | 54.50 | 8.15 | 864 | 50.4 | 51.0 | 34.8 |
| | | | | 6mA | 12 | 0.57 | 55.90 | 6.02 | 936 | 39.9 | 42.2 | 26.7 |
| 3 | 480 | 2.6 | Yellow | 8mA | 12 | 0.60 | 54.31 | 8.14 | 763 | 42.4 | 45.1 | 35.2 |
| | | | | 6mA | 12 | 0.50 | 52.09 | 5.91 | 861 | 43.1 | 40.4 | 28.9 |
| 4 | 470 | 4.0 | White | 8mA | 12 | 0.59 | 54.50 | 8.10 | 783 | 41.8 | 42.8 | 33.7 |
| | | | | 6mA | 12 | 0.48 | 52.80 | 5.98 | 845 | 41.0 | 38.5 | 26.6 |
| 5 | 420 | 4.8 | White | 8mA | 12 | 0.53 | 54.69 | 8.06 | 704 | 39.3 | 37.5 | 32.6 |
| | | | | 6mA | 12 | 0.39 | 52.08 | 6.07 | 646 | 39.3 | 37.6 | 24.0 |
| 6 | 410 | 4.0 | Blue | 8mA | 12 | 0.52 | 54.28 | 8.13 | 660 | 40.1 | 38.1 | 29.3 |
| | | | | 6mA | 12 | 0.40 | 53.45 | 6.10 | 698 | 40.3 | 39.4 | 24.5 |
| 7 | 410 | 2.5 | White | 8mA | 12 | 0.58 | 55.20 | 8.18 | 760 | 53.2 | 46.1 | 34.4 |
| | | | | 6mA | 12 | 0.47 | 55.34 | 6.05 | 825 | 41.1 | 44.4 | 26.7 |
| 8 | 410 | 4.0 | Green | 8mA | 12 | 0.54 | 54.55 | 8.06 | 703 | 40.2 | 40.2 | 31.5 |
| | | | | 6mA | 12 | 0.41 | 52.88 | 5.95 | 695 | 41.5 | 39.1 | 32.6 |
| 9 | 410 | 3.9 | White | 8mA | 12 | 0.50 | 54.17 | 8.35 | 684 | 38.7 | 38.1 | 31.9 |
| | | | | 6mA | 12 | 0.40 | 54.32 | 6.10 | 733 | 39.5 | 40.1 | 26.1 |
| 10 | 300 | 3.9 | White | 8mA | 12 | 0.43 | 57.44 | 8.23 | 543 | 38.2 | 33.7 | 28.7 |
| | | | | 6mA | 12 | 0.33 | 55.50 | 6.21 | 575 | 36.0 | 34.4 | 24.4 |
| 11 | 300 | 2.5 | White | 8mA | 12 | 0.45 | 54.57 | 8.30 | 536 | 41.7 | 37.8 | 37.0 |
| | | | | 6mA | 12 | 0.37 | 51.45 | 6.10 | 529 | 38.4 | 35.8 | 24.7 |
| 12 | 290 | 4.8 | White | 8mA | 12 | 0.38 | 56.56 | 8.22 | 503 | 37.5 | 33.1 | 28.1 |
| | | | | 6mA | 12 | 0.30 | 54.64 | 6.30 | 486 | 35.3 | 33.8 | 22.8 |
| 13 | 220 | 2.6 | White | 8mA | 12 | 0.38 | 56.10 | 8.36 | 418 | 40.1 | 38.0 | 27.8 |
| | | | | 6mA | 12 | 0.28 | 55.03 | 6.35 | 441 | 38.6 | 36.6 | 23.3 |
| 14 | 220 | 2.2 | White | 8mA | 12 | 0.37 | 53.85 | 8.37 | 445 | 40.8 | 42.4 | 28.0 |
| | | | | 6mA | 12 | 0.29 | 55.01 | 6.33 | 466 | 37.6 | 37.8 | 22.2 |
| 15 | 200 | 4.8 | White | 8mA | 12 | 0.32 | 53.57 | 8.36 | 395 | 35.1 | 32.2 | 26.6 |
| | | | | 6mA | 12 | 0.25 | 56.90 | 6.70 | 385 | 35.4 | 32.7 | 21.8 |
| 16 | 200 | 3.0 | Blue | 8mA | 12 | 0.35 | 55.46 | 8.46 | 420 | 34.2 | 31.0 | 27.8 |
| | | | | 6mA | 12 | 0.27 | 55.80 | 6.52 | 408 | 36.5 | 35.5 | 22.2 |
| 17 | 120 | 2.6 | White | 8mA | 12 | 0.27 | 54.05 | 8.59 | 297 | 38.6 | 36.6 | 26.9 |
| | | | | 6mA | 12 | 0.22 | 54.37 | 6.96 | 285 | 38.6 | 36.6 | 20.7 |
| 18 | 100 | 4.0 | White | 8mA | 12 | 0.24 | 54.38 | 8.64 | 281 | 35.5 | 32.2 | 25.3 |
| | | | | 6mA | 12 | 0.19 | 59.34 | 7.04 | 274 | 35.6 | 33.1 | 21.2 |
| 19 | 90 | 2.0 | White | 8mA | 12 | 0.24 | 59.00 | 8.35 | 246 | 39.3 | 36.8 | 29.4 |
| | | | | 6mA | 12 | 0.20 | 59.03 | 7.04 | 250 | 37.1 | 35.7 | 20.2 |