

# Amorphous Silicon Solar Cells Specification

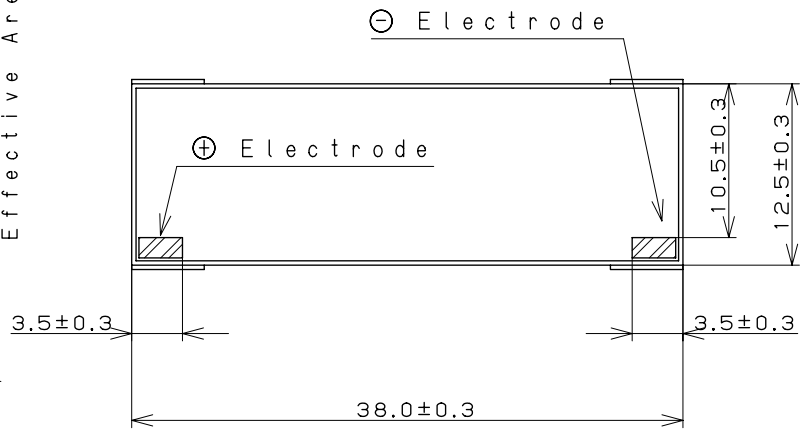
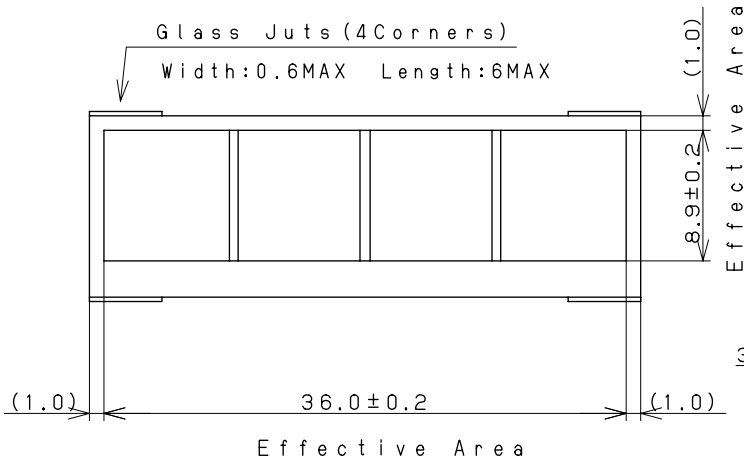
## アモルファスシリコン太陽電池 仕様

Model: AM-1407C

### 1. Outside dimensions 外形寸法

Light Receiving Side (受光面)

Overcoat Side (オーバーコート面)



(dimension: mm)

#### Note

Glass Substrate Thickness (ガラス基板厚):  $1.1\text{mm} \pm 0.1$

Module Thickness (モジュール厚):  $1.3\text{mm MAX}$

Accepts normal soldering for bending

(一般の半田を使用してリット線付けが可能です。)

### 2. Rated Specifications (at 25°C)

| Item  | Specifications (Initial)           |
|---|------------------------------------|
| 2.1 Open circuit voltage: Voc<br>開放電圧                           | Typical 2.5V at 200Lx FL           |
| 2.2 Short circuit Current: Isc<br>短絡電流                          | Typical 13.1 μA at 200Lx FL        |
| 2.3 Operating Voltage &<br>Operating Current: Vope-lope<br>動作特性 | Typical 1.4V - 2.85 μA at 50Lx FL  |
|   | Minimum 1.5V - 9.3 μA at 200Lx FL  |
|   | Typical 1.5V - 12.2 μA at 200Lx FL |
| 2.5 Working temperature range: Topr<br>動作温度範囲                   | -10 to 60°C                        |
| 2.6 Storage temperature range: Tstg<br>保存温度範囲                   | -20 to 70°C                        |
| 2.7 Working illuminance range<br>使用照度範囲                         | ~1000Lx                            |

FL: White Fluorescent Light

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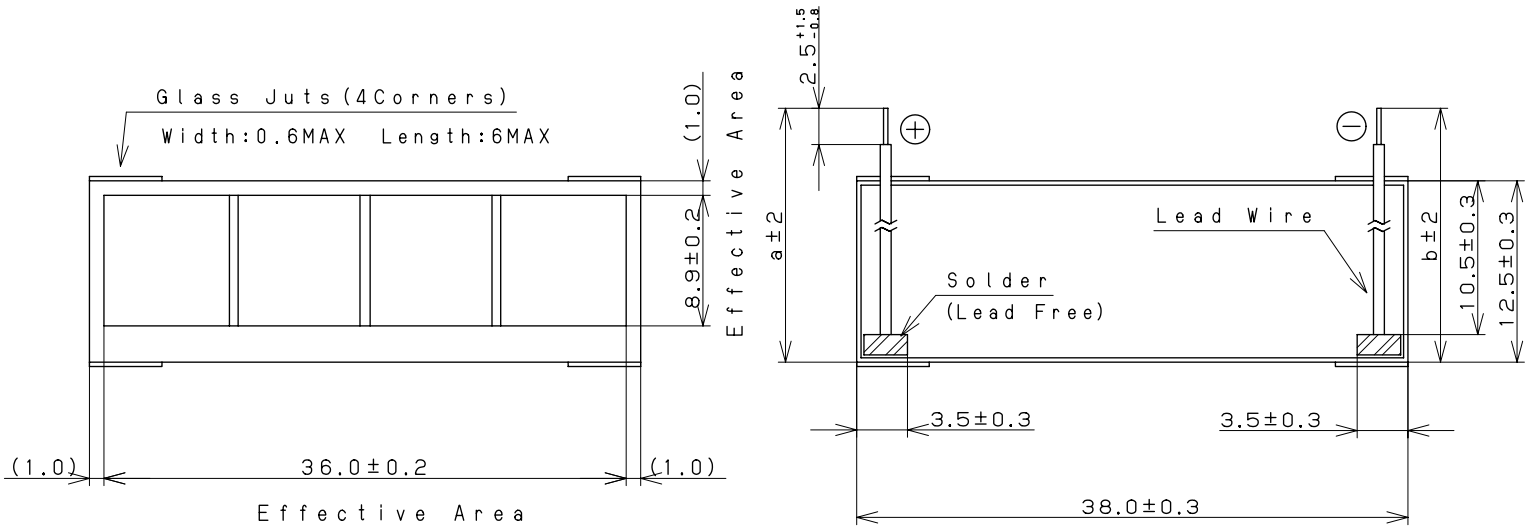
## アモルファスシリコン太陽電池 仕様

Model : AM-1407CA

### 1. Outside dimensions 外形寸法

Light Receiving Side (受光面)

Overcoat Side (オーバーコート面)



(dimension : mm)

|                    |        |
|--------------------|--------|
| Lead Wires : AWG30 |        |
| a : 51             | b : 51 |

#### Note

Glass Substrate Thickness (ガラス基板厚) : 1.1mm ± 0.1

Module Thickness (モジュール厚) : 1.3mm MAX

Wire-Solder thickness : 2.5mm MAX (including Module)  
(リード線半田付け部厚)

### 2. Rated Specifications (at 25°C)

| Item   | Specifications (Initial) |                |             |
|--|--------------------------|----------------|-------------|
| 2.1 Open circuit voltage : Voc<br>開放電圧                           | Typical                  | 2.5V           | at 200Lx FL |
| 2.2 Short circuit Current : Isc<br>短絡電流                          | Typical                  | 13.1 μA        | at 200Lx FL |
| 2.3 Operating Voltage &<br>Operating Current : Vope-lope<br>動作特性 | Typical                  | 1.4V - 2.85 μA | at 50Lx FL  |
|  | Minimum                  | 1.5V - 9.3 μA  | at 200Lx FL |
|  | Typical                  | 1.5V - 12.2 μA | at 200Lx FL |
| 2.5 Working temperature range : Topr<br>動作温度範囲                   | -10 to 60°C              |                |             |
| 2.6 Storage temperature range : Tstg<br>保存温度範囲                   | -20 to 70°C              |                |             |
| 2.7 Working illuminance range<br>使用照度範囲                          | ~1000Lx                  |                |             |

FL : White Fluorescent Light

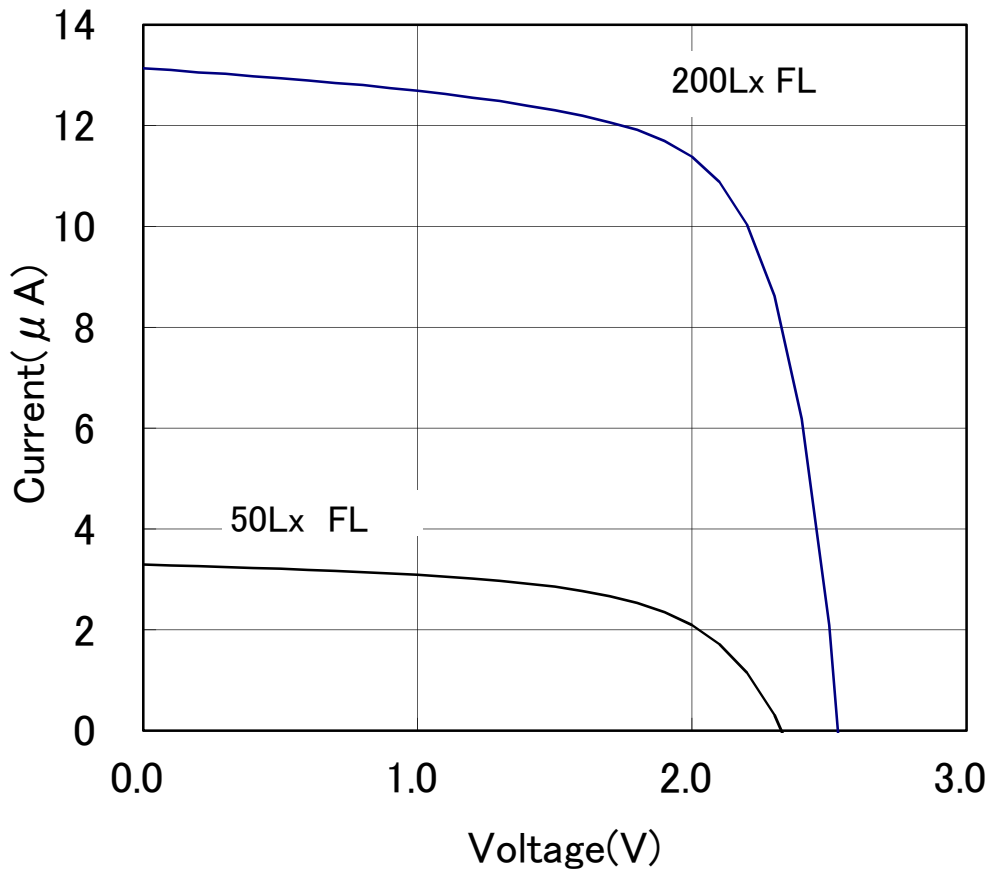
# I - V Characteristics

REFERENCE

1.Model : AM-1407

2.Outside Dimension : 38.0mm × 12.5mm

FL:White Fluorescent Light



\*このデータは標準的な出力特性を示すものであり、特性を保証するものではありません。

\*The data are meant to show standard electric characteristics only , not intended to guarantee the characteristics.

Panasonic Solar Amorton Co.,Ltd.

2019/4/25

# 出力の照度依存特性

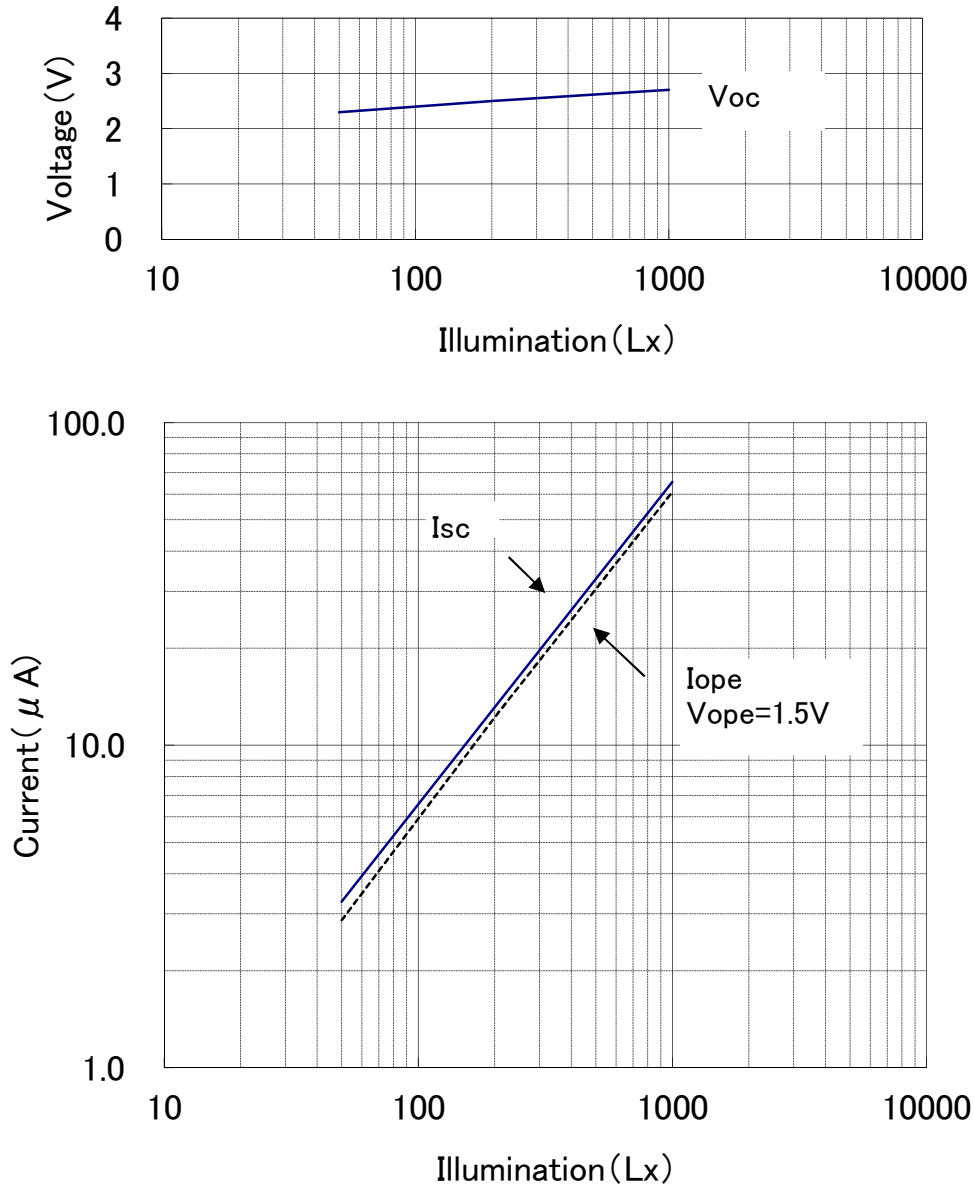
REFERENCE

Dependence of Output on Illumination

1.Model : AM-1407

2.Outside Dimension : 38.0mm × 12.5mm

FL:White Fluorescent Light



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# 出力の温度依存特性

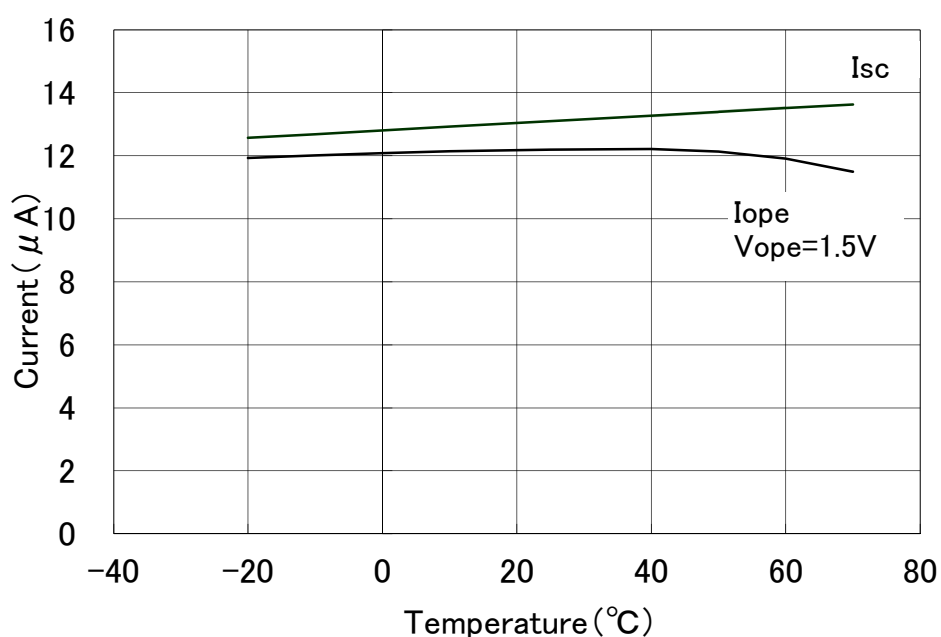
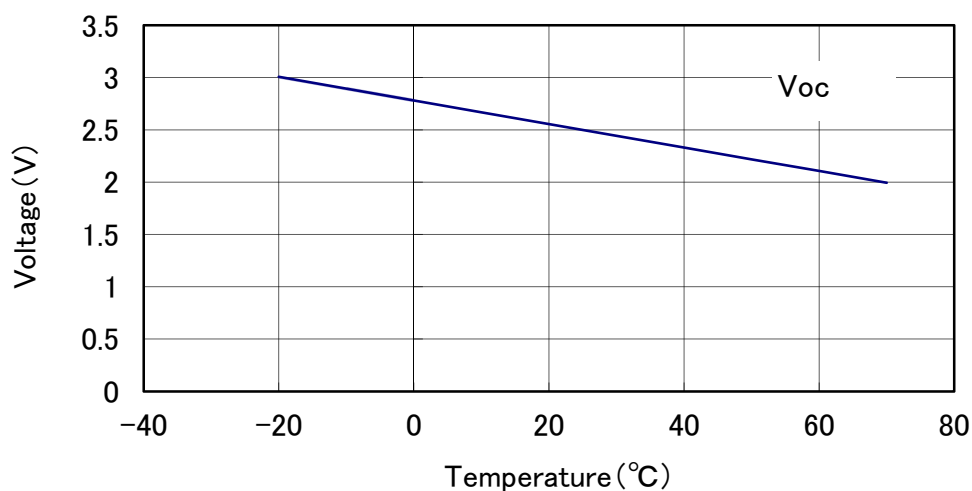
REFERENCE

Dependence of Output on Temperature

1.Model : AM-1407

2.Outside Dimension : 38.0mm × 12.5mm

at 200Lx White Fluorescent Light



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