

APOLLO AL1206

“Panda” series

HIGHLY DURABLE, ULTRA LIGHTWEIGHT



Apollo Flexible Technology

Apollo develops and manufactures groundbreaking solutions and products in solar energy, destined to transform any surface under the sun into an electricity source.

Apollo Panda is specifically designed to fit any lightweight structure with load limits or curved surfaces.

↓ 80%

Reduction of total system weight

↓ 50%

Reduction of labor cost



#1 in efficiency per weight and durability

CERTIFICATIONS AND TESTS

ISO9001:2015, Design, production, and marketing flexible solar panels, CE, IEC61215:2021, IEC61730:2016, ANSI/UL61215:2021, ANSI/UL61730:2017



MAIN BENEFITS & KEY FEATURES



Durable and Reliable
Patented cell technology with enhanced micro-cracks tolerant, IP68 rated



Efficient
High energy yield due to 17.5% cell efficiency



Ultra Lightweight
2.8 Kg/sqm, fits light structures with load limits



Fast Deployment
Easy to transport, load, and install in various methods, with no additional construction and lower labor costs



PID Free
No extra devices needed to mitigate PID in the PV array



Aesthetic Design
Customizable color (full black, white or transparent), and mounting design

ELECTRICAL SPECIFICATIONS

STC 1,000 W/sqm, (25 ± 2)°C, AM 1.5

| | | |
|----------------------------------|----------------|------|
| Maximum Power (Pmax) | 300 ±5% | W |
| Maximum Power Voltage (Vmp) | 38 | V |
| Maximum Power Current (Imp) | 7.88 | A |
| Open Circuit Voltage (Voc) | 47.5 ±5% | V |
| Short Circuit Current (Isc) | 8.6 ±5% | A |
| Maximum Series Fuse | 15 | A |
| Operating Temperature | (-40) – (+85) | °C |
| | (-40) – (+185) | °F |
| Temperature coefficient Isc (α) | 0.057 | %/°C |
| Temperature coefficient Voc (β) | -0.288 | %/°C |
| Temperature coefficient Pmax (γ) | -0.423 | %/°C |
| Maximum System Voltage | 1000 | Vdc |

MECHANICAL DATA

| | |
|---------------------------|---|
| Cell Type | 72 Apollo cells (6X12) |
| Dimensions (mm) | 2020X1005X2.2 ,JB height- 14.8 |
| (In) | (62.2X40.8X0.1 ,JB height- 0.58) |
| Weight , Kg (lb) | 5.8 (12.7) ±5% |
| Max bending Diameter (mm) | 1000 ± 5 |
| (In) | 39.37 ± 0.2 |
| Junction Box | Front side, IP68 rated |
| Connector Type | Original MC4-EVO2 |
| Output Cables | AL120610XXX-1 120cm AL120610XXX-2 20cm |

4mm² (12AWG) cross-section

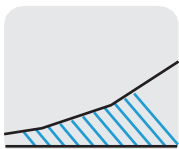
| | |
|------------------------------|-----------------|
| Backside Material | PET |
| Frame | Framless module |
| Class (IEC 61730-1:2016) | Class II |
| Fire class (UL 61730, UL790) | C |
| Static load certification | 2400 Pa |

PACKAGING CONFIGURATION

| | |
|---------------------------|------|
| Modules per shipping box | 6 |
| Modules per pallet | 60 |
| Modules per 40' container | 1320 |

| | |
|------------------------------|----------------|
| Pallet dimensions LxWxH (mm) | 2080X1080X1110 |
| (In) | 81.8X41.5X43.7 |
| Pallet weight , Kg (lb) | 498 (1097) |

CUSTOMIZABLE INSTALLATION TECHNIQUES

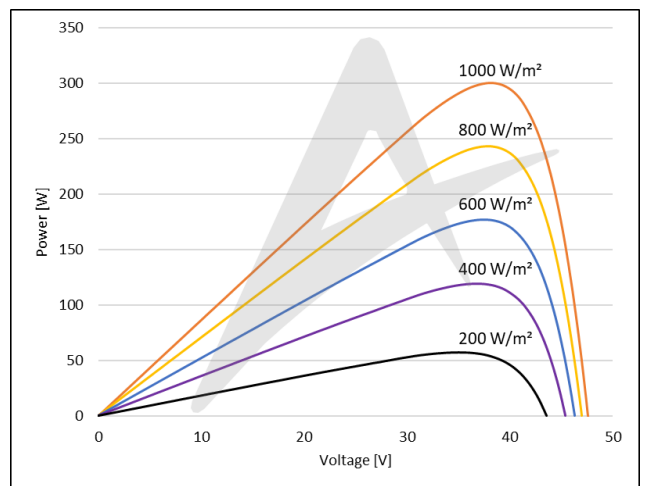
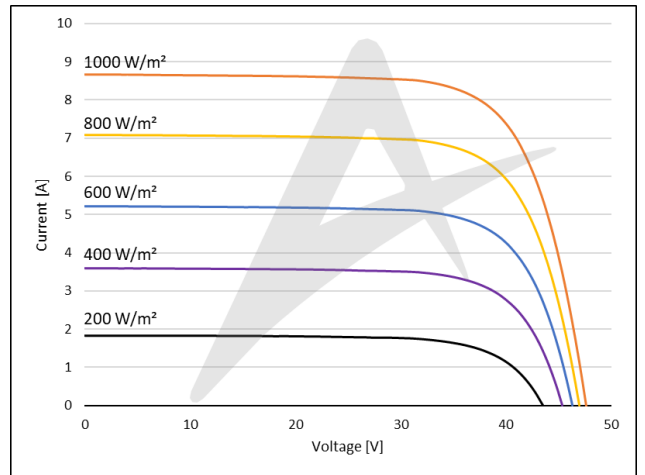
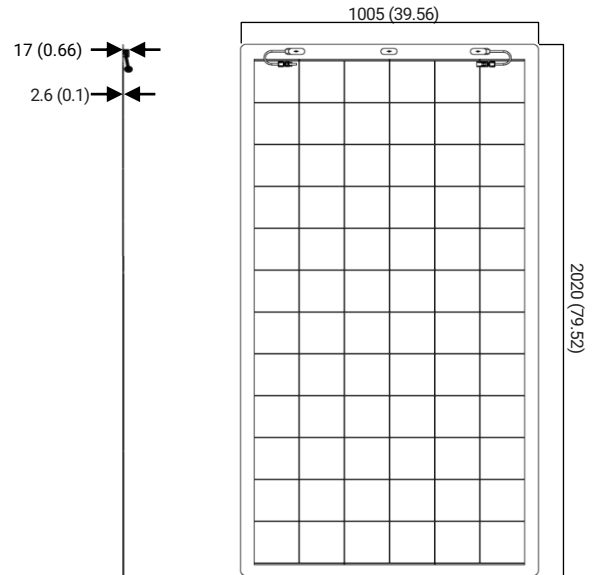


Durable Adhesive



Screws and studs

ENGINEERING DRAWINGS mm (In)



GUARANTEED POWER

