APOLLO

Solar Shading Solutions

Sports Facilities | Playgrounds | Parking



Solar Shading System for Sports Facilities and Parking Lots

An innovative solution that combines effective shading with renewable energy.

Key Benefits

- Apollo Power’s lightweight, flexible solar panels
- Galvanized steel support structure
- Simultaneous shading and clean energy production
- Proven technology with successful installations
- Standard system capacity for 600 sqm: 100 kWp


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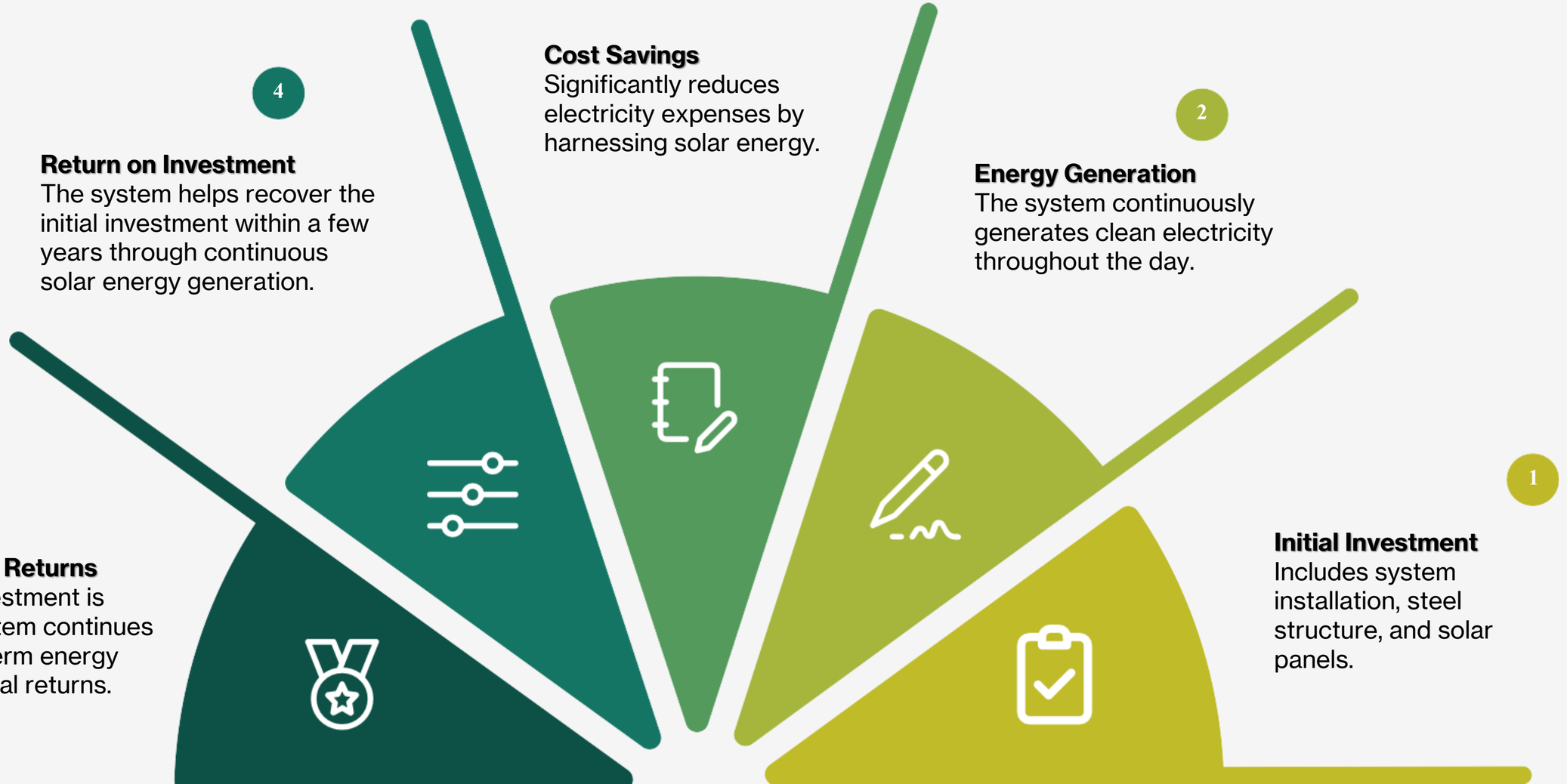


An Investment That Pays for Itself

- Generates clean, renewable energy while providing shade
- Helps recover the initial investment within a few years
- Delivers long-term energy savings and ongoing financial returns
- Maximizes the value of parking lots and sports facilities

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Return on Investment



1

Initial Investment
Includes system installation, steel structure, and solar panels.

2

Energy Generation
The system continuously generates clean electricity throughout the day.

3

Cost Savings
Significantly reduces electricity expenses by harnessing solar energy.

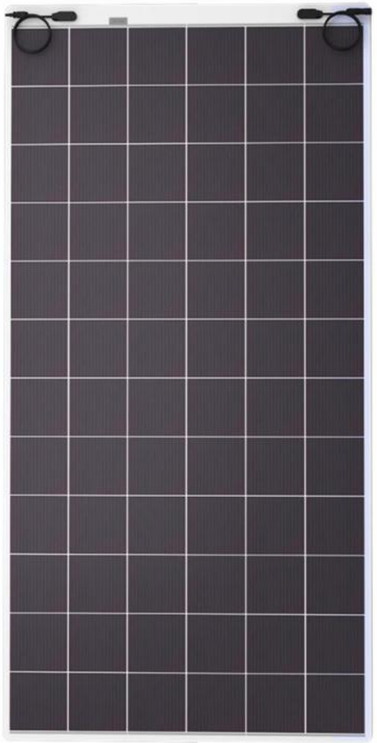
4

Return on Investment
The system helps recover the initial investment within a few years through continuous solar energy generation.

5

Ongoing Financial Returns
After the initial investment is recovered, the system continues to generate long-term energy savings and financial returns.

Apollo Panda+ Data Sheet



Apollo Panda + (320W)

Highly Durable, Ultra Lightweight

Apollo Durable Technology

Apollo pioneers the development and manufacturing of flexible solar cells through proprietary technology, enabling a diverse portfolio of energy market solutions designed to transform any surface under the sun into an energy source.

Apollo Panda + is specifically designed to fit any lightweight structure with load bearing limitations.

↓80% Reduction of total system weight

↓50% Reduction of labor cost

#1 in efficiency per weight and durability

Durable and Reliable

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

Efficient

High energy yield due to 17.5% cell efficiency

Fast Deployment

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

Aesthetic Design

Designed for smooth, seamless surface integration

PID Free

No extra devices needed to mitigate PID in the PV array

Ultra Lightweight

3.4Kg/sqm (0.69 Psf), fits light structures with load limits

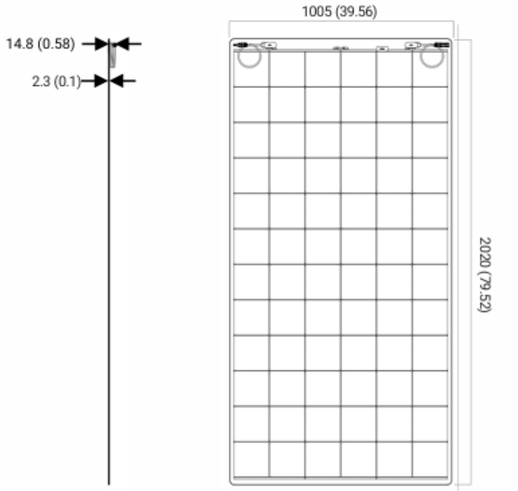
Apollo Panda+ Data Sheet

ELECTRICAL SPECIFICATIONS

STC 1,000 W/sqm, (25 ± 2)°C, AM 1.5

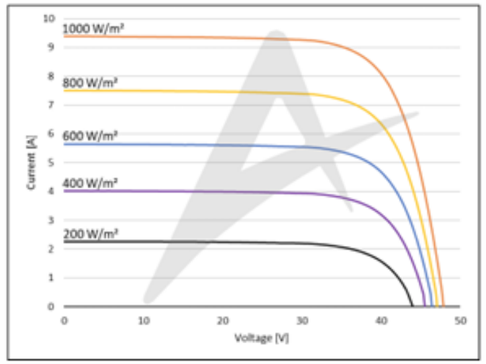
	AG120610003	
Maximum Power (Pmax)	320 ± 5%	W
Maximum Power Voltage (Vmp)	38	V
Maximum Power Current (Imp)	8.3	A
Open Circuit Voltage (Voc)	47.5 ± 5%	V
Short Circuit Current (Isc)	9.4 ± 5%	A
Maximum Series Fuse	15	A
Module $(T_{98})_{max}$	70	°C
	158	°F
Temperature coefficient Isc (α)	0.032	%/°C
Temperature coefficient Voc (β)	-0.248	%/°C
Temperature coefficient Pmax (γ)	-0.363	%/°C
Maximum System Voltage	1000	VDC

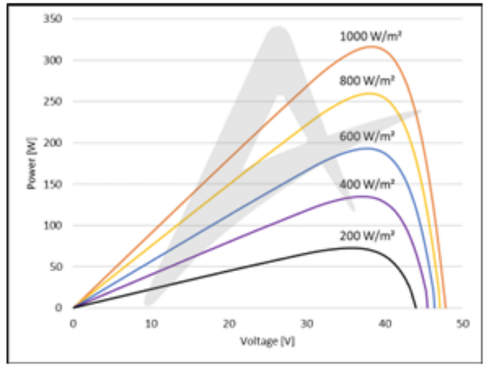
ENGINEERING DRAWINGS mm (In)



MECHANICAL DATA

Cell Type	72 (6x12)	Apollo Cells
Dimensions	2020x1005x2.3 ,JB height- 14.8	mm
	79.5x39.5x0.1 ,JB height- 0.58	In
Panel Weight	6.8 ± 3%	Kg
	15 ± 3%	lb
Weight per Unit Area	3.35	Kg/sqm
	0.69	lb/sq.ft
Junction Box	Front side, IP68 rated	
Connector Type	Original MC4-EVO2	
Output Cables Length	1200	mm
Cross-Section	4	mm²
	(12)	(AWG)
Back Sheet Material	Composite White	
Class (IEC 61730-1)	Class II	
Fire Type (UL 61730)	62	
Max Design load	1,600	Pa





PACKAGING CONFIGURATION

Modules per pallet	60	
Modules per 40' container	1320	
Pallet dimensions LxWxH	2080x1080x1110	mm
	81.8x42.5x43.7	In
Pallet weight	535	Kg
	1179	lb

CERTIFICATIONS AND TESTS

ISO 9001:2015
CE
IEC 61215:2021, IEC 61730:2016, ANSI/UL 61215:2021 ANSI/UL 61730:2017

GUARANTEED POWER

