
aramco
SOLAR

ABOUT

ARAMCO SOLAR

Aramco Solar is a globally recognized name in renewable energy, delivering reliable, innovative, and cost-effective solar solutions for homes, businesses, and industries worldwide. We are committed to a cleaner, brighter, and more sustainable future through the power of the sun.

SUSTAINABLE ENERGY
FOR A BRIGHTER TOMORROW



OUR VISION

To be a globally recognized and customer-focused solar energy brand, empowering industries and communities with clean, reliable, and future-ready energy solutions.



OUR MISSION

To make clean and renewable energy accessible for everyone by providing high-quality solar products, dependable after-sales support, and long-term value, while building lasting partnerships based on trust and integrity.



SOLAR ENERGY
A CLEANER, BRIGHTER TOMORROW

OUR MEGA PROJECTS



1 MEGAWATT

SOLAR SOLUTION FOR INDUSTRY

INDUSTRIAL SOLUTION



700 kW

COMMERCIAL SOLAR SOLUTION

COMMERCIAL SOLUTION

RESIDENTIAL ENERGY STORAGE

Built for a cleaner, smarter and more independent tomorrow, residential PV + ESS systems are the ideal choice for modern homes. Our hybrid system integrates rooftop solar, a hybrid inverter, and battery storage to deliver reliable, efficient, and uninterrupted power. With intelligent energy management, it ensures lower electricity bills, maximum self-consumption, and seamless integration with the utility grid.



- Compatible with most hybrid inverter platforms
- Ideal for low-voltage residential energy storage systems
- Seamless integration with smart home energy management systems (HEMS)
- Integrated Battery Management System (BMS) for enhanced safety and reliability

Application Process



Energy storage system



City Electricity



Lithium Battery



Inverter

Output
Input



OUR PRODUCTS

01 | SOLAR INVERTERS



02 | SOLAR PANELS



03 | LITHIUM BATTERIES



Single Phase | Low Voltage

SOLAR INVERTERS



Models	6kW	8kW	10kW
Battery			
Battery type		Li-ion	
Battery voltage range		201 – 600 V	
Max. charge / discharge power	6 kW	8 kW	20 kW
Charge / discharge current	0 – 26 A	0 – 50 A	0 – 50 A
Battery loss		≤0.5%	
Communication		CAN / RS485	
Output AC (Grid side)			
Rated output power	6 kW	8 kW	20 kW
Max. apparent output power	6 kVA	8 kVA	11 kVA
Rated grid voltage		3/N/PE, 380 V / 400 V	
Grid voltage range		221 – 480 V	
Rated grid frequency		50 Hz / 60 Hz	
Rated grid output current	9.2 A / 8.7 A	12.3 A / 11.5 A	15.2 A / 14.4 A
Max. output current	9.2 A / 8.7 A	12.3 A / 11.5 A	15.2 A / 14.4 A
Power factor		> 0.99 (0.8 leading ~ 0.8 lagging)	
THDi		< 2%	
Input AC (Grid side)			
Max. input power	6 kW	8 kW	20 kW
Rated input current	9.2 A	12.3 A	15.2 A
Rated input voltage		3/N/PE, 380 V / 400 V	
Rated frequency		50 Hz / 60 Hz	
Efficiency			
EU efficiency		93.52%	
BAT charged / discharged to AC max. efficiency		93.50%	
Protection			
Anti-islanding protection		Yes	
Output over current protection		Yes	
Short circuit protection		Yes	
Battery reverse protection		Yes	
Protection class / Over voltage category		I / II (Battery), III (Main)	
General Data			
Dimension (W × H × D)		620 × 520 × 223 mm	
Weight	24.3 kg	24.3 kg	26.1 kg
Topology		Transformerless	
Self-consumption (night)		< 25 W	
Operating ambient temperature range		-25 ~ +60°C (> 45°C derating)	
Relative humidity		0 - 100%	
Ingress protection		IP66	
Noise emission (typical)		< 45.0 dB(A)	
Cooling concept		Natural cooling	
Max. operation altitude		4000 m	
Grid connection standard		VDE-AR-N 4105, EN 50549-1, EN 50549-2, EN 50549-10, VDE 0126, IEC 61727, IEC 62116	
Safety standard		IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-3	

SOLAR INVERTERS



SINGLE PHASE



3 PHASE

Models	12kW	15kW	20kW
Battery			
Battery type		Li-ion	
Battery voltage range		201 – 600 V	
Max. charge / discharge power	12 kW	15 kW	20 kW
Charge / discharge current	0 – 50 A	0 – 50 A	0 – 50 A
Battery loss		≤0.5%	
Communication		CAN / RS485	
Output AC (Grid side)			
Rated output power	12 kW	15 kW	20 kW
Max. apparent output power	13.2 kVA	16.5 kVA	22 kVA
Rated grid voltage		3/N/PE, 380 V / 400 V	
Grid voltage range		320 – 460 V	
Rated grid frequency		50 Hz / 60 Hz	
Rated grid output current	18.2 A / 17.4 A	22.8 A / 21.7 A	30.4 A / 28.9 A
Max. output current	18.2 A / 17.4 A	22.8 A / 21.7 A	30.4 A / 28.9 A
Power factor		> 0.99 (0.8 leading ~ 0.8 lagging)	
THDi		< 2%	
Input AC (Grid side)			
Max. input power	12 kW	15 kW	20 kW
Rated input current	18.2 A	22.8 A	30.4 A
Rated input voltage		3/N/PE, 380 V / 400 V	
Rated frequency		50 Hz / 60 Hz	
Efficiency			
EU efficiency	98.30%	98.30%	98.30%
BAT charged / discharged to AC max. efficiency	98.00%	98.00%	98.00%
Protection			
Anti-islanding protection	Yes	Yes	Yes
Output over current protection	Yes	Yes	Yes
Short circuit protection	Yes	Yes	Yes
Battery reverse protection	Yes	Yes	Yes
Protection class / Over voltage category		I / II (Battery), III (Main)	
General Data			
Dimension (W × H × D)	620 × 520 × 223 mm	620 × 520 × 223 mm	620 × 520 × 223 mm
Weight	26.1 kg	26.1 kg	26.1 kg
Topology	Transformerless	Transformerless	Transformerless
Self-consumption (night)	< 25 W	< 25 W	< 25 W
Operating ambient temperature range	-25 ~ +60°C (> 45°C derating)	-25 ~ +60°C (> 45°C derating)	-25 ~ +60°C (> 45°C derating)
Relative humidity	0 - 100%	0 - 100%	0 - 100%
Ingress protection	IP66	IP66	IP66
Noise emission (typical)	< 45.0 dB(A)	< 45.0 dB(A)	< 45.0 dB(A)
Cooling concept	Natural cooling	Natural cooling	Natural cooling
Max. operation altitude	4000 m	4000 m	4000 m
Grid connection standard	VDE-AR-N 4105, EN 50549-1, EN 50549-2, EN 50549-10, VDE 0126, IEC 61727, IEC 62116	VDE-AR-N 4105, EN 50549-1, EN 50549-2, EN 50549-10, VDE 0126, IEC 61727, IEC 62116	VDE-AR-N 4105, EN 50549-1, EN 50549-2, EN 50549-10, VDE 0126, IEC 61727, IEC 62116
Safety standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-3	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-3	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-3

SOLAR INVERTER

PV9000

6KW

IP21





MODEL	PV9000 (6KW)
Rated Power	6000W
Phase	1 phase in / 1 phase out
Maximum PV Input Power	4500W (4000W)
GRID TIED OPERATION	
Grid Feeding	3000W
Maximum DC Voltage	500Vdc
Start-up Voltage	90Vdc
MPPT Voltage Range	60–450Vdc
Number of MPPT Trackers / Maximum Input Current	2 / 18A
GRID OUTPUT (AC)	
Nominal Output Voltage	220/230/240Vac
Output Voltage Range	164.5–265Vac
Nominal Output Current	26.5A
Power Factor	>0.99
EFFICIENCY	
Maximum Conversion Efficiency (DC/AC)	97%
OFF-GRID OPERATION	
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	170–280Vac / 180Vac (UPS)
Acceptable Input Voltage Range	90–280Vac or 170–280Vac (UPS)
Frequency Range	50 Hz / 60 Hz (Auto sensing)
Maximum AC Input Current	26.5A

GENERAL	
PHYSICAL	
Dimension (DxWxHmm)	360 × 290 × 100
Net Weight (kg)	4.92
INTERFACE	
Communication Port	Built-in RS232 / WiFi (Optional)
ENVIRONMENT	
Humidity	5% to 95% (Relative Humidity Non-condensing)
IP Degree	IP21
Operating Temperature	-10°C – 60°C
Storage Temperature	-15°C – 60°C

- High efficiency
- Smart MPPT
- Reliable performance
- Wide input range

6KW

IP21

SOLAR INVERTER

PV14000

10KW

IP21







- High efficiency
- On-Grid & Off-Grid
- Battery compatible
- Optional Wi-Fi monitoring
- Compact & durable design

MODEL	PV14000 (10KW)
Rated Power	10KW
Phase	Single-Phase
Operation Mode	On-Grid & Off-Grid
Pure Sine Wave Output	Yes

PV INPUT	
Maximum PV Input Power	4500W – 13,500W
Grid Feeding Supported	Up to 5500W

DC INPUT	
Maximum DC Voltage	500V DC
MPPT Voltage Range	60 – 450V DC
Number of MPPT Trackers	3 MPPT (8A each)

AC OUTPUT	
Nominal Output Voltage	220 / 230 / 240V
Output Voltage Range	195.5 – 253V
Nominal Output Current	43.5A
Power Factor	>0.99

AC INPUT	
AC Input Voltage Range	90 – 280V (UPS supported)
Frequency	50 / 60Hz (Auto sensing)

EFFICIENCY	
Maximum Conversion Efficiency	Up to 97%

COMMUNICATION	
Built-In Communication	RS232
Wi-Fi Monitoring	Optional

ENVIRONMENT	
IP Protection	IP21
Operating Temperature	-10°C to 50°C

OTHER FEATURES	
Battery Compatible	Yes (for Off-Grid Use)
Design	Compact & Durable

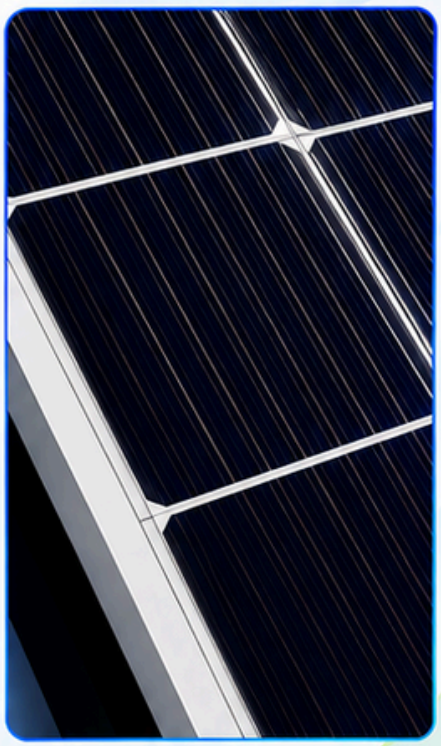
PV14000 10KW | IP21

SOLAR PANEL 620W

N-Type TOPCon

BIFACIAL





High energy yield
- Consistent energy production across all weather conditions
- Bifacial energy generation

Elegant design
- Sleek panel aesthetic
- High-durability frame and heat-strengthened glass

Reliable operation
- Rigorous supply chain qualification procedures
- Easy to install
- Backed by a bankable company

Ideal for commercial applications

Framed glass-glass

Bifacial energy generation

Electrical Data (STC)	620W
Nominal Power (Pmax)	620 W
Power Binning	3/0%
Panel Efficiency	23.0%
Rated Voltage (Vmpp)	40.98 V
Rated Current (Impp)	15.13 A
Open-Circuit Voltage (Voc)	48.94 V
Short-Circuit Current (Isc)	16.05 A

Electrical Data (General)	620W
Bifaciality (φPmax/φIsc)	80% +/- 5%
Bifaciality (φVoc)	98% +/- 2%
Maximum System Voltage	1500 V IEC
Testing Temperature	-40°C to +85°C
Operation Temperature	-40°C to +70°C (IEC TS 63126)
Maximum Series Fuse	30 A
Power Temp. Coef.	-0.28% / °C
Voltage Temp. Coef.	-0.24% / °C
Current Temp. Coef.	0.045% / °C

Packaging Configuration	620W
Number of modules per pallet	36
Number of pallets per 40ft HQ container	20
Number of modules per container	720

Electrical Data (BNPI)	620W
Nominal Power (Pmax)	685 W
Open-Circuit Voltage (Voc)	49.11 V
Short-Circuit Current (Isc)	17.73 A

Bifacial Gain	620W
Pmax with 5% Bifacial Gain	651 W
Isc with 5% Bifacial Gain	16.85 A
Pmax with 10% Bifacial Gain	682 W
Isc with 10% Bifacial Gain	17.66 A

Mechanical Data	620W
Solar Cells	N-Type TOPCon
Glass	2.0 mm + 2.0 mm, high transmission heat strengthened glass, AR coating on front glass
Junction Box	IP-68, 3 bypass diodes
Connector	H4 connectors
Weight	32.6 kg
Max. Load	Wind: 2400 Pa, 245 kg/m² front & back Snow: 5400 Pa, 550 kg/m² front
Impact Resistance	25 mm diameter hail at 23 m/s
Frame	Anodized Aluminium Alloy

Tests And Certifications	620W
Standard Tests	IEC 61215, IEC 61730
Fire Rating	Class A (IEC 61730-2 / UL 790)
Protection Class	Class II (IEC 61140)
Quality Certs	ISO 9001:2015, ISO 14001:2015
EHS Compliance	ISO 45001:2018, Recycling Scheme

Comprehensive warranty coverage

25-30 Years Product and power coverage

99.0% Year 1 minimum warranted output

0.40% Maximum annual degradation

SOLAR PANEL 730W

N-Type Bifacial

Double Glass Module

HSM-GLF-NM730-75S





High energy yield
- Consistent energy production across all weather conditions
- Bifacial energy generation

Elegant design
- Sleek panel aesthetic
- High-durability frame and
- heat-strengthened glass

Reliable operation
- Low current design
- High mechanical strength
- Non-destructive cutting

Customer value
- Higher power output
- Lower LCOE
- High project returns

Electrical Parameters (STC: AM1.5, 1000W/m², 25°C)	730W
Maximum Power (Pmax)	730 W
Open-Circuit Voltage (Voc)	49.18 V
Short-Circuit Current (Isc)	18.18 A
Maximum Power Voltage (Vmp)	41.89 V
Maximum Power Current (Imp)	17.42 A
Module Efficiency	24.3%

Temperature Coefficient	730W
Temperature Coefficient of Pmax	-0.28% / °C
Temperature Coefficient of Voc	-0.24% / °C
Temperature Coefficient of Isc	0.045% / °C

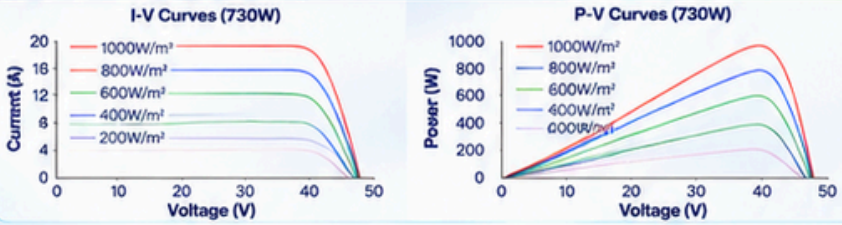
Mechanical Data	730W
No. of Cells	132 (6 × 22)
Dimensions	2384 × 1303 × 33 mm
Weight	38.3 kg
Front Glass	2.0 mm, heat strengthened, AR coating
Back Glass	2.0 mm, heat strengthened glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 bypass diodes
Cable	4.0 mm², +400 mm, -200 mm or customised length
Maximum Static Load	Front 5400 Pa / Back 2400 Pa

Electrical Characteristics with Different Bifacial Gain (Rear Side Power Gain)	730W
Bifacial Ratio	80 ± 5%
Maximum Power (Pmax) – 10%	803 W
Open-Circuit Voltage (Voc)	49.18 V
Short-Circuit Current (Isc)	20.00 A
Maximum Power Voltage (Vmp)	41.89 V
Maximum Power Current (Imp)	19.18 A
Module Efficiency	26.7%

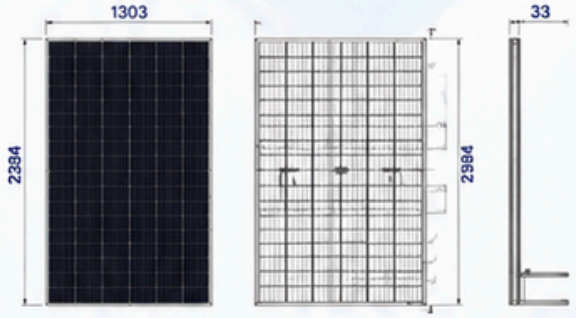
Operating Parameters	730W
Operating Temperature	-40°C to +85°C
Maximum System Voltage	1500 V IEC
Maximum Series Fuse	30 A
Power Tolerance	0~+3%
Bifaciality	80 ± 5%
Fire Rating	Class C

Packaging Configuration	730W
Modules per Pallet	33
Pallets per 40ft HQ Container	20
Modules per Container	660

I-V Curve (730W)



Engineering Drawing (mm)



Certifications

IEC CE TÜV cec ISO

ISO 9001:2015
ISO 14001:2015
ISO 45001:2018



aramco SOLAR

5.12kWh LITHIUM BATTERY

FEATURES

- Auto aerosol fire extinguishing
  Ultimate security, strengthen defense
- Full automatic manufacturing products
- 100% tested for safety, readability and capacity
- Top-notch LFP Class A cell / Strict capacity grading
- Precise voltage / temperature / SOC detection
- One button start / stop and parallel connection
- Real-time data monitoring and firmware update
- Touch LCD display shows data visually
- Versatile installation



DATASHEET

Model	5.12kWh
Performance	
Cell technology	LFP (LiFePO4)
Battery usable energy [1]	5.12kWh
Nominal voltage	51.2Vdc
Operating voltage	44.8 – 56.16 V
Max. charge and discharge current [2]	100 A
Communication	
Display	SOC status indicator, LED indicator, LCD display
Communication	CAN / RS485 / RS232 / Wi-Fi
General Specification	
Dimension (W × D × H)	390 × 160 × 643 mm 15.35 × 6.3 × 25.31 inch
Weight	47 Kg (103.6 lbs)
Installation	Floor stand or Wall mounted
Operating temperature [3]	Charge: 0 to 50°C (32 to 122°F) Discharge: -15 to 50°C (5 to 122°F)
Environmental humidity	≤ 95%RH (No condensation)
Ingress protection rating	IP20
Cycle life	6000 Cycles @ 80%DOD / 25°C / 0.5C 60% EOL
Warranty Period [4]	10 Years (5 years product + 5 years service)
Scalability	(Optional)
Application	Max. 15 batteries in parallel
Compatible inverters	ON Grid / OFF Grid + Hybrid / AC coupled / Off grid Refer to compatible inverter list (Compatible with major PCS brands)
Standard Compliance	
Compliance	UN38.3 / IEC62619 / IEC61000 (More available upon request)
Ordering and Delivery Parts	
Parts	5.12kWh Battery 5.12kWh Parallel cable 5.12kWh to PCS cable

[1] Test conditions: 100% depth of discharge (DOD), 0.2C rate charge & discharge at 25°C.
[2] There is 0.5C or 1C configurations optional in factory default.
[3] Charging/discharging derating occurs when the temperature is below 0°C or above 45°C.
[4] Please refer to the Warranty Letter for applicable conditions.



Long Cycle Life 6000 Cycles

Smart BMS Protection

Scalable Up to 15 Units in Parallel



16kWh LITHIUM BATTERY

FEATURES

- Auto aerosol fire extinguishing Ultimate security, strengthen defense
- Full automatic manufacturing products
- 100% tested for safety, readability and capacity
- Top-notch LFP Class A cell / Strict capacity grading
- Precise voltage / temperature / SOC detection
- One button start / stop and parallel connection
- Real-time data monitoring and firmware update
- Touch LCD display shows data visually
- Easy movement and installation roller



DATASHEET

Model	16
Performance	
Cell technology	LFP (LiFePO4)
Battery usable energy [1]	16076.8 Wh
Nominal voltage	51.2 Vdc
Operating voltage	44.8 – 56.16 V
Max. charge and discharge current [2]	300 A
Communication	
Display	SOC status indicator, LED indicator, LCD display
Communication	CAN / RS485 / RS232 / Wi-Fi
General Specification	
Dimension (W × D × H)	485 × 245 × 785 mm 19.1 × 9.6 × 30.91 inch
Weight	122 kg (265.96 lbs)
Installation	Floor stand
Operating temperature [3]	Charge: 0 to 50°C (32 to 122°F) Discharge: -15 to 50°C (5 to 122°F)
Environmental humidity	≤ 95%RH (No condensation)
Ingress protection rating	IP20
Cycle life	6000 Cycles @ 80%DOD / 25°C / 0.5C 60% EOL
Warranty Period [4]	10 Years (5 years product + 5 years service)
Scalability	(Optional)
Application	Max. 15 batteries in parallel
Compatible inverters	ON Grid / OFF Grid + Hybrid / AC coupled / Off grid
Standard Compliance	
Compliance	UN38.3 / IEC62619 / IEC61000 (More available upon request)
Ordering and Delivery Parts	
Parts	16 kWh Battery 16 Parallel cable 16 to PCS cable

[1] Test conditions: 100% depth of discharge (DOD), 0.2C rate charge & discharge at 25°C.
[2] There is 0.5C or 1C configurations optional in factory default.
[3] Charging/discharging derating occurs when the temperature is below 0°C or above 45°C.
[4] Please refer to the Warranty Letter for applicable conditions.



Long Cycle Life
6000 Cycles

Smart BMS Protection

Scalable
Up to 15 Units in Parallel

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