

VESSELNET
INTEGRATED
SERVICES LTD



CATALOGUE | 2017

www.vesselnetintegrated.com

WHO WE ARE



Vesselnet is a world class service provider in Alternative Power Solution (Solar Energy), Information Communication Technology and Telecommunications industry with focus on Nigeria, sub Saharan Africa and the emerging markets.

We pride ourselves as a full service company, competent and capable of handling complex projects. We have

products and service that are tailored to suit individual's pocket and our in-house experts are always available to provide support wherever and whenever its needed.

SOLAR SOLUTIONS



SOLAR FOR HOMES

At Vesselnet, we provide Solar Solutions for homes from 100W to power basic needs and up to 10 KW for homes with large loads. We guarantee 18-24 hours supply daily with full service support across the years

H-Lyte Mini (120w)

H-Lyte Maxi (165w)

H-lyte Extra (1kw - 10kw)

SOLAR SOLUTIONS



B-Lyte Mini (15kw - 100kw)

SOLAR FOR BUSINESS

We provide 24/7 Power Solutions to support your business. With our effective solution, you can cut down on fuel expense that hits into your profit.

SOLAR SOLUTIONS



SOLAR FOR DEVICES

We have portable solar devices to meet your on-the-go needs, meaning you don't have to look for electricity to meet basic needs because you have power with you everywhere.

SOLAR SOLUTIONS



SOLAR FOR COMMUNITY

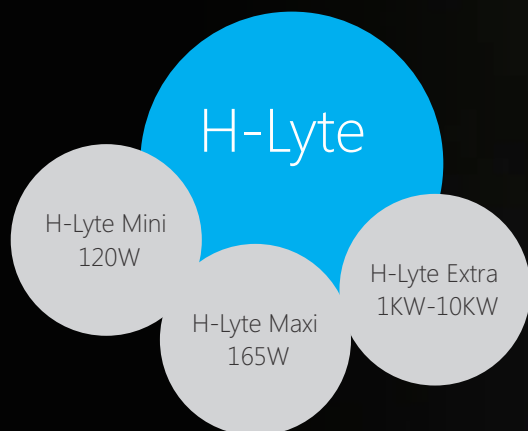
Communities can now benefit from the better alternative solar solution with energy monitoring system at cheaper cost. We provide a suitable Micro Grid Solutions with 24 hours supply and support from our team

TELECOM SERVICES



- ✧ **Network Design and Planning**
- ✧ **Site Acquisition**
- ✧ **Network Rollout and Implementation**
- ✧ **Site Maintenance and intervention**
- ✧ **Manage Service Solution for active and passive**
- ✧ **Transmission network Design, Implementation and Support -Fiber & Microwave**
- ✧ **Microwave Transmission Design, Implementation and Support**
- ✧ **Data Network Design, Implementation and Support**
- ✧ **IT Managed Services**
- ✧ **Voice and Data Cabling Services**
- ✧ **Turnkey data center solution**

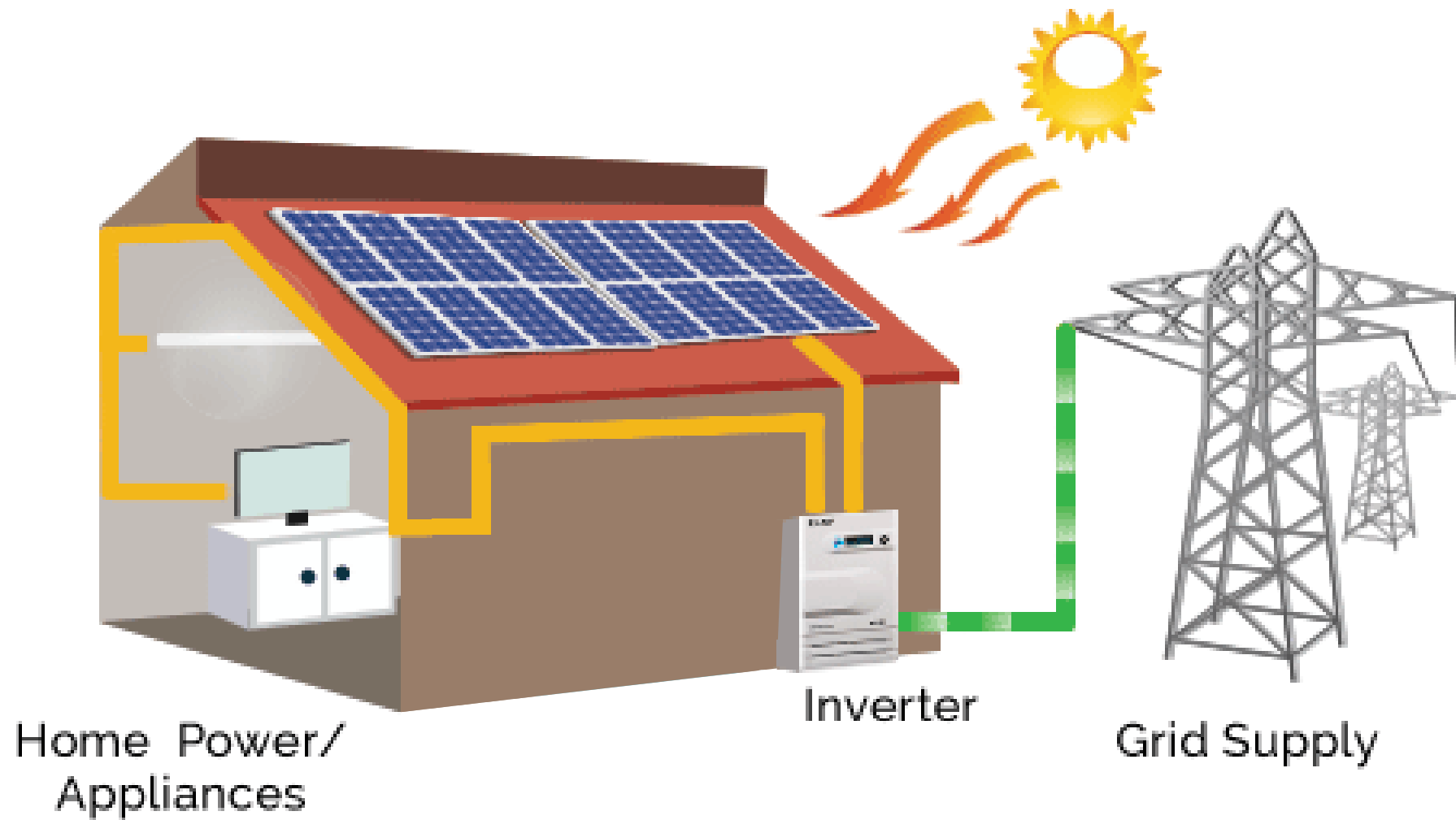
HOME SOLUTIONS



PRODUCT BENEFITS

- ✧ Enjoy electricity for long hours
- ✧ Very affordable for everyone
- ✧ Easy to install and disconnect
- ✧ Minimal space needed for solar component
- ✧ Maintenance free
- ✧ Comes with warranty
- ✧ Smart control option for energy management
- ✧ Support service available

COMPACT SOLAR SOLUTIONS



COMPACT SOLAR SYSTEMS



VSHS300W-Li

- ✦ Battery Type: Lithium Battery
- ✦ Power Capacity: 300VA/240W
- ✦ Battery Capacity: 600Wh
- ✦ Output Voltage: 230VAC \pm 10V
- ✦ DC Output: 12V/6A x 2
- ✦ USB Output: 5V/2A x 2
- ✦ Cigar Light port: 13.5V/15A
- ✦ Size: 420x182x302mm



VSHS500W-Li

- ✦ Battery Type: Lithium Battery
- ✦ Power Capacity: 500VA/400W
- ✦ Battery Capacity: 1KWh
- ✦ Output Voltage: 230VAC \pm 10V
- ✦ DC Output: 12V/6A x 3
- ✦ USB Output: 5V/2A x 3
- ✦ Cigar Light port: 13.5V/15A
- ✦ Size: 420x182x302mm



VSHS500W

- ✦ Battery Type: LeadAcid
- ✦ Power Capacity: 500W
- ✦ Battery Capacity: 12V/155AH
- ✦ Output Voltage 230VAC \pm 10V
- ✦ DC Output: 12V/3W
- ✦ USB Output: 5V \pm 0.5V

COMPACT SOLAR SYSTEMS

VSHS810W

- ✧ Battery Type: Lead Acid
- ✧ Power Capacity: 810W
- ✧ Battery Capacity: 12V/7AH
- ✧ Output Voltage: 230VAC \pm 10V
- ✧ DC Output: 12V/3W
- ✧ USB Output: 5V \pm 0.5V



VSHS830W-Li

- ✧ Battery Type: 18650 lithium
- ✧ Power Capacity: 300W
- ✧ Battery Capacity: 11.1V/30AH
- ✧ Output Voltage: 230VAC \pm 10V
- ✧ DC Output: 12V/3W,
- ✧ USB Output: 5V \pm 0.5V



VSHS820W

- ✧ Battery Type: Lead Acid
- ✧ Power Capacity: 500W
- ✧ Battery Capacity: 12V/12AH
- ✧ Output Voltage 230VAC \pm 10V
- ✧ DC Output: 12V/3W
- ✧ USB Output: 5V \pm 0.5V



COMPACT SOLAR SYSTEMS



VSHS840W-Li

- ✧ Battery Type: 18650 lithium
- ✧ Power Capacity: 300W
- ✧ Battery Capacity: 11.1V/38AH
- ✧ Output Voltage: 230VAC \pm 10V
- ✧ DC Output: 12V/3W,
- ✧ USB Output: 5V \pm 0.5V



VSHS850W-Li

- ✧ Battery Type: 18650 lithium
- ✧ Power Capacity: 300W
- ✧ Battery Capacity: 11.1V/50AH
- ✧ Output Voltage: 230VAC \pm 10V
- ✧ DC Output: 12V/3W,
- ✧ USB Output: 5V \pm 0.5V

COMPACT SOLAR SYSTEMS

VSHS830W

- ✧ Battery Type: Lead Acid
- ✧ Power Capacity: 300W
- ✧ Battery Capacity: 456Wh
- ✧ Output Voltage: 230VAC \pm 10V
- ✧ DC Output: 12V/3W,
- ✧ USB Output: 5V \pm 0.5V
- ✧ Size: 420x200x300mm



VSHS850W

- ✧ Battery Type: Lead Acid
- ✧ Power Capacity: 300W
- ✧ Battery Capacity: 780Wh
- ✧ Output Voltage: 230VAC \pm 10V
- ✧ DC Output: 12V/3W,
- ✧ USB Output: 5V \pm 0.5V
- ✧ Size: 420x200x300mm



VSHS840W

- ✧ Battery Type: Lead Acid
- ✧ Power Capacity: 300W
- ✧ Battery Capacity: 600Wh
- ✧ Output Voltage: 230VAC \pm 10V
- ✧ DC Output: 12V/3W,
- ✧ USB Output: 5V \pm 0.5V
- ✧ Size: 420x200x300mm



COMPACT HOME SYSTEMS



VSHS1KW

- ✦ Use integrated design of inverter, MPPT and battery packs with simple operation. Intelligent control system, Full-frequency transformation, small size, light weight and high efficiency.
- ✦ Battery Type: Lithium
- ✦ Power Capacity: 1.5KVA/1000W (1KW)
- ✦ Battery Capacity: 12V/50AH
- ✦ Output Voltage: 230VAC \pm 10V
- ✦ MPPT Output Voltage: 42V - 58Vdc
- ✦ MPPT Max Charging Current: 20A
- ✦ Dimension: 650mmx 200mmx 500mm



VSHS3KW

- ✦ Use integrated design of inverter, MPPT and battery Packs simple operation. Intelligent control system, Full-frequency transformation, small size, light weight and high efficiency
- ✦ Battery Type: Lithium
- ✦ Power Capacity: 3KVA/2400W (2.4KW)
- ✦ Battery Capacity: 12V/100AH
- ✦ Output Voltage: 230VAC \pm 10V
- ✦ MPPT Output Voltage: 42V - 58Vdc
- ✦ MPPT Max Charging Current: 60A
- ✦ Dimension: 760mmx 760mmx 354mm

COMPACT HOME SYSTEMS



VSHS5KW

- ✦ Battery Type: Lithium
- ✦ Power Capacity: 6.25KVA/5000W (5KW)
- ✦ Battery Capacity: 12V/200AH
- ✦ Output Voltage: 230VAC \pm 10V
- ✦ MPPT Output Voltage: 42V - 58Vdc
- ✦ MPPT Max Charging Current: 100A
- ✦ Dimension: 980mmx 810mmx 354mm



VSHS10KW

- ✦ Battery Type: Lithium
- ✦ Power Capacity: 12.5KVA (10KW)
- ✦ Battery Capacity: 12V/200AH
- ✦ Output Voltage: 230VAC \pm 10V
- ✦ MPPT Output Voltage: 42V - 58Vdc
- ✦ MPPT Max Charging Current: 100A
- ✦ Dimension: 980mmx 810mmx 354mm

INVERTERS



FULL AUTOMATIC SILENT OPERATION POWER INVERTER 1-2KVA **KEY FEATURES**

- ✧ Modified sine wave output.
- ✧ High frequency design.
- ✧ Optional input voltage range.
- ✧ Full automatic and silent operation.
- ✧ Automatic charging.
- ✧ Auto change AC-DC.
- ✧ Over-load protection.
- ✧ Three-steps intelligent charging control to recharging.
- ✧ LCD display, audible and visual alarm.



LCD Pure Sine Wave Inverter 1-6KVA **KEY FEATURES**

- ✧ Pure Sine Wave output
- ✧ The charging current is big up to 85 Amp
- ✧ Output power factor is 0.9-1
- ✧ Well accept generator's output
- ✧ Full automatically and silent operation
- ✧ Automatically transfer between battery and line modes
- ✧ Microprocessor control guarantees high reliability
- ✧ Remote control function
- ✧ Four-steps intelligent charging control to recharging time
- ✧ Bypass and bypass voltage regulation function
- ✧ Could be built-in MPPT controller (optional)

INVERTERS



PURE SINE WAVE OUTPUT INVERTER 1-12KVA **KEY FEATURES**

- ✧ Pure sine wave output, color screen display
- ✧ The charging current is big up to 85 Amp
- ✧ Output power factor is 0.9-1
- ✧ Output socket is optional
- ✧ Battery type can be select
- ✧ Output voltage and frequency can be set
- ✧ Charge current can adjust
- ✧ Battery temperature sense optional
- ✧ Connect to generator restart function
- ✧ Well accept generator's output
- ✧ Full automatic and silent operation
- ✧ Automatically transfer between battery and line modes
- ✧ Microprocessor control guarantees high reliability
- ✧ Remote control function
- ✧ Three-steps intelligent charging control to recharging time
- ✧ Bypass function

INVERTERS



PURE SINE WAVE OUTPUT POWER INVERTER 1-12KVA **KEY FEATURES**

- ✦ Pure sine wave output
- ✦ The charging current is big up to 85 Amp
- ✦ Output power factor 0.9-1
- ✦ Well accept generator's output
- ✦ Full automatic and silent operation
- ✦ Automatically transfer between battery and line modes
- ✦ Microprocessor control guarantees high reliability
- ✦ Remote control function
- ✦ Three-steps intelligent charging control to recharging time
- ✦ Bypass and bypass voltage regulation function
- ✦ Could be setting frequency by LCD display with color screen
- ✦ Battery type and charge current can be select



WALL MOUNTED PURE SINE WAVE POWER INVERTER 3-5KVA **KEY FEATURE**

- ✦ High Efficiency 98% Pure Sine Wave Inverter
- ✦ High frequency switching technology for compact size and light weight
- ✦ LCD Display, Pure sine wave output
- ✦ High efficient DC to AC conversion minimizing energy loss
- ✦ Supporting home appliance/office equipment /Lighting equipment
- ✦ Solar, Wind, Generator

INVERTERS



KEY FEATURES

- ✦ Intelligent Maximum Power Point Tracking technology increases efficiency 25%~30%
- ✦ Compatible for PV systems in 12V, 24V or 48V
- ✦ Three-stage charging optimizes battery performance
- ✦ Maximum charging current up to 60A
- ✦ Maximum efficiency up to 98%
- ✦ Battery temperature sensor (BTS) automatically provides temperature compensation
- ✦ Support wide range of lead-acid batteries including wet, AGM, and gel batteries
- ✦ Multifunction LCD displays detailed information

TELECOM POWER SOLUTIONS



48VDC POWER SUPPLY

48VDC SOLAR TELECOM POWER SUPPLY



TELECOM POWER SOLUTIONS

HIGH FREQUENCY ONLINE OUTDOOR UPS ROUTINE 1-10KVA



Outdoor Intelligent High Frequency Online UPS provide continuous pure sine wave AC power supply for outside communications / network equipment.

Double-conversion online design, high temperature resistant, anti-cold, sealing level for IP55; With the wide range of input voltage and frequency of input window (- 45% +35% rated voltage and $\pm 10\%$ rated frequency), in many remote areas of China after a severe test of the grid.

TELECOM POWER SOLUTIONS



HIGH FREQUENCY OUTDOOR ONLINE UPS AIR CONDITIONER 1-10KVA

TELECOM POWER SOLUTIONS

**PROTECTION OUTDOOR TELECOM
CABINET (OUTDOOR ELECTRICAL
ENCLOSURE, OUTDOOR ELECTRICAL
CABINETS)**



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**OUTDOOR AIR-CONDITION CABINET
(OUTDOOR NETWORK ENCLOSURE, OUTDOOR
POWER ENCLOSURE)**



**TELECOM OUTDOOR
CABINETS SOLUTION**



VESSELNET 

TELECOM POWER SOLUTIONS

1-10KVA HIGH FREQUENCY OUTDOOR ONLINE HANGING UPS



RECTIFIER MODULAR - 1U

- ✧ DIMENSIONS(W,H,D) : 126XZ44(1U)*213.
- ✧ 4MMWEIGHT: 1.5KG.



RECTIFIER MODULAR - 2U

- ✧ Dimensions(w,h,d):
- ✧ 106 83.8(2u)*218mm
- ✧ Weight: 2.2kg.



TELECOM POWER SOLUTIONS



COMPREHENSIVE OUTDOOR SYSTEM(INCLUDING BATTERY WIRING)

DC INPUT :

- ✦ Industry-leading power density compact size and high reliability;
- ✦ Cabinet adopt quality galvanized sheet or aluminum coated steel sheet as material, surface coating anti-UV power;
- ✦ The built-in 19 "power supply equipment;
- ✦ IP45 level
- ✦ Independent cooling design
- ✦ Space for built-in 1 group 4PCS 40AH batteries
- ✦ 60A/48V System

TELECOM POWER SOLUTIONS

STM -II MONITORING MODULE



STM -III MONITORING MODULE

FEATURES

- ✧ English display | Rs485 Communication function
- ✧ Ethernet communication | Multiplex dry contractor
 - ✧ Battery Management | Sound and lighting Alarm
 - ✧ Low Voltage Detector | Three Remote System (Remote detect, remote communication, remote control)
 - ✧ Control dormancy and save energy for rectified modular
 - ✧ Environment Temperature detection
 - ✧ Access control Smoke and flooding etc, environmental alarm function



STM -I MONITORING MODULE



TELECOM POWER SOLUTIONS

48V SWITCHING POWER SUPPLY EMBEDDED SYSTEM



Rectifier modular
SR4850 Plus(Efficiency:96%)



Embedded System SP6U-48200



Rectifier Modular
SR4850 (Efficiency:92%)



Monitoring Module - STM

DIMENSIONS(W H D): 480 270 300(MM)
WEIGHT(KG): 20KG
(INCLUDE RECTIFIER MODULE)

EMBEDDED SYSTEM

- ✦ Dimensions(w.h.d): 482.6*44*280(mm)
- ✦ Weight(kg): 6kg
- ✦ (include rectifier module)



EMBEDDED SYSTEM

- ✦ Dimensions(w.h.d): 482.6*132*280(mm)
- ✦ Weight(kg): 15kg
- ✦ (include rectifier module)

UNINTERRUPTIBLE POWER SUPPLY

MODEL:1 – 10KVA

- ✧ Nominal Voltage:
208/220/230/240VAC
- ✧ Nominal frequency: 50/60Hz
- ✧ Output Power factor:
0.7/0.8(Optional)



KEY FEATURES

- ✧ Large blue LCD display interface user-friendly, pure high frequency online UPS, with voltage adjustment circuit, provide reliable power protection in the bad operation environment.
- ✧ Comprehensive electric isolate and bypass protection
- ✧ Input power factor correction, reduce the harm of harmonic to the power grid, convenient to match small generators
- ✧ Automatic alarm, self test function
- ✧ Wide input voltage range
- ✧ Input neutral and live wire detect and data protect function
- ✧ When main power failure, the UPS going to DC start, Convenient and reliable; when main power recover, UPS restart automatically
- ✧ N+X Parallel Redundancy and Capacity expansion for 6K-10K.

HIGH FREQUENCY ONLINE UPS

MODEL:1 – 3KVA

- ✧ Nominal Voltage: 208/220/230/240VAC
- ✧ Nominal frequency: 50/60Hz
- ✧ Output Power factor: 0.7/0.8 (Optional)



KEY FEATURES

- ✧ Large blue backlight LCD for detailed real-time UPS status display
- ✧ Pure sine wave double conversion online UPS with voltage regulator circuit, which can provide a perfect power protection when UPS working in a harsh surroundings
- ✧ Comprehensive electric isolation and bypass protection
- ✧ Input PFC technology, reduce harmonic pollution to the power grid
- ✧ Automatic alarm; Self-testing function
- ✧ Wide Input frequency range can connect various fuel generator
- ✧ Adopt intelligent battery management, saving charging time and extend battery life
- ✧ DC start when power off, convenient and reliable; restart automatically when electricity is restored

HIGH FREQUENCY ONLINE UPS

- ✧ Model: HP9115C 1-10KVA (1Ph in/1Ph out)
- ✧ Model: HP9315C 10-20KVA (3Ph in/1Ph out)
- ✧ Nominal voltage: 208/220/230/240VAC (1-20KVA)
- ✧ Nominal frequency: 50/60Hz
- ✧ Output Power factor: 0.8/0.9(Optional)



✧ KEY FEATURES

- ✧ Its cut-edge digital technology of DSP (Digital signal Processor), can greatly improve the products performance and system reliability, and deliver a compact integration with higher power density
- ✧ Output power factor up to 0.8 - applicable to the tendency of future load evolution, and deliver higher payload capacity
- ✧ Total power factor up to 90% can minimize the power loss of UPS and save utilization cost for user
- ✧ Emergency Power Off (EPO): UPS can be instantly shut off in case of any emergency
- ✧ Compliance with EMC requirements of IEC61000-4, provide your device a clean electric environment
- ✧ Active power factor connector (P F C) technology allows the input power factor approach to 1 , dramatically reducing the immunity on utility grid
- ✧ Excellent input frequency range makes UPS suitable to different power supply devices, i.e. generator set
- ✧ Parallel Kit: realize the parallel extension and redundancy function, offer more flexibility and safety for user's power supply planning
- ✧ Compact Design, Lower Noise

HIGH FREQUENCY ONLINE UPS

MODEL: 1-20KVA

- ✧ Nominal voltage: 220/230/240/380VAC
- ✧ Nominal frequency: 40~70Hz
- ✧ Output Power factor: 0.9



- ✧ **HIGHLY FLEXIBLE AND EXTENDABLE**
- ✧ Battery can choose
- ✧ Battery voltage can be choice depend on capacity , can satisfy different requirement
- ✧ Convenience to get more back up time and lower system invests
- ✧ Convenience to save cost of battery
- ✧ Intelligent battery monitors

HIGH FREQUENCY ONLINE UPS

MODEL: 10-30KVA

- ✧ Nominal voltage: 380/450/415VAC
- ✧ Frequency range: 50/60Hz
- ✧ Output Power factor: 0.9



KEY FEATURES:

- ✧ True double-conversion
- ✧ DSP technology guarantees high performance
- ✧ Output power factor 0.9
- ✧ Wide input voltage range (110-300 VAC)
- ✧ Active power factor correction in all phases
- ✧ 50Hz/60Hz frequency converter mode
- ✧ ECO mode operation for energy saving
- ✧ Accepts dual-mains inputs
- ✧ Emergency power off function (EPO)
- ✧ Generator compatible
- ✧ SNMP+USB+RS-232 multiple communications
- ✧ 3-stage extendable charging design for optimized battery performance
- ✧ Adjustable battery numbers
- ✧ Maintenance bypass available
- ✧ Optional N+X parallel redundancy
- ✧ Optional isolation transformer offers full isolation and complete common mode noise rejection

ONLINE UPS WITH LARGE LCD



MODEL: 1-20KVA

- ✧ Nominal voltage: 220/230/240/380VAC
- ✧ Nominal frequency: 40~70Hz
- ✧ Output Power factor: 0.9

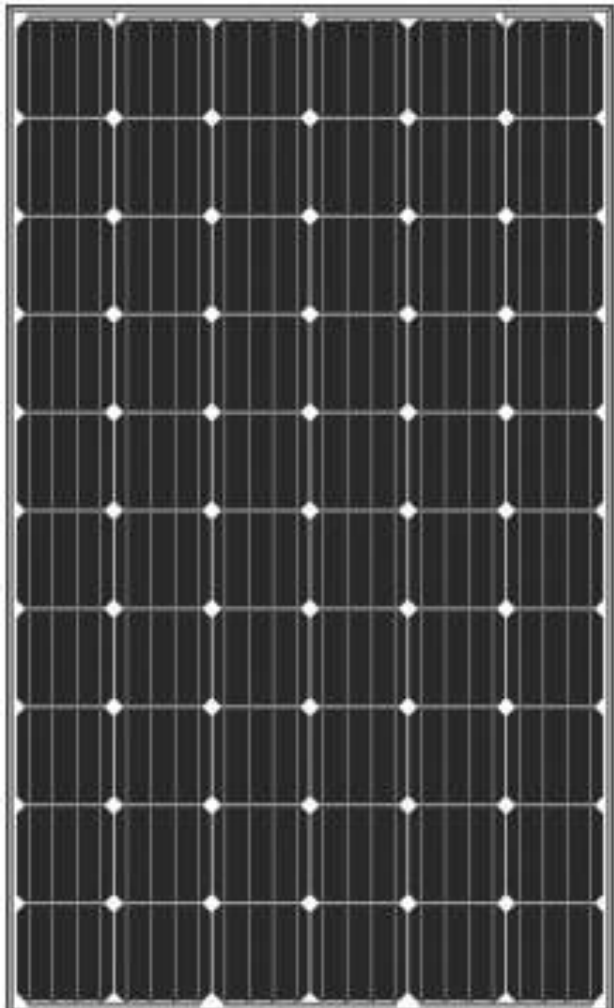
HIGHLY FLEXIBLE AND EXTENDABLE BATTERY CAN CHOOSE

- ✧ Battery voltage can be choice depend on capacity, can satisfy different requirement
- ✧ Convenience to get more back up time and lower system invests
- ✧ Convenience to save cost of battery
- ✧ Intelligent battery monitors



PHOTOVOLTAIC PANELS

MONOCRYSTALLINE



AS-6M30 PERC – 270W-300W

ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- ✧ High module conversion efficiency up to 18.44% by using Passivated Emitter Rear Contact (PERC) technology.
- ✧ Low degradation and excellent performance under high temperature and low light conditions.
- ✧ Robust aluminium frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- ✧ High reliability against extreme environmental conditions (passing salt mist, ammonia and hail tests).
- ✧ Potential induced degradation (PID) resistance.
- ✧ Positive power tolerance of 0 ~ +3 %.
- ✧ 30 years performance warranty

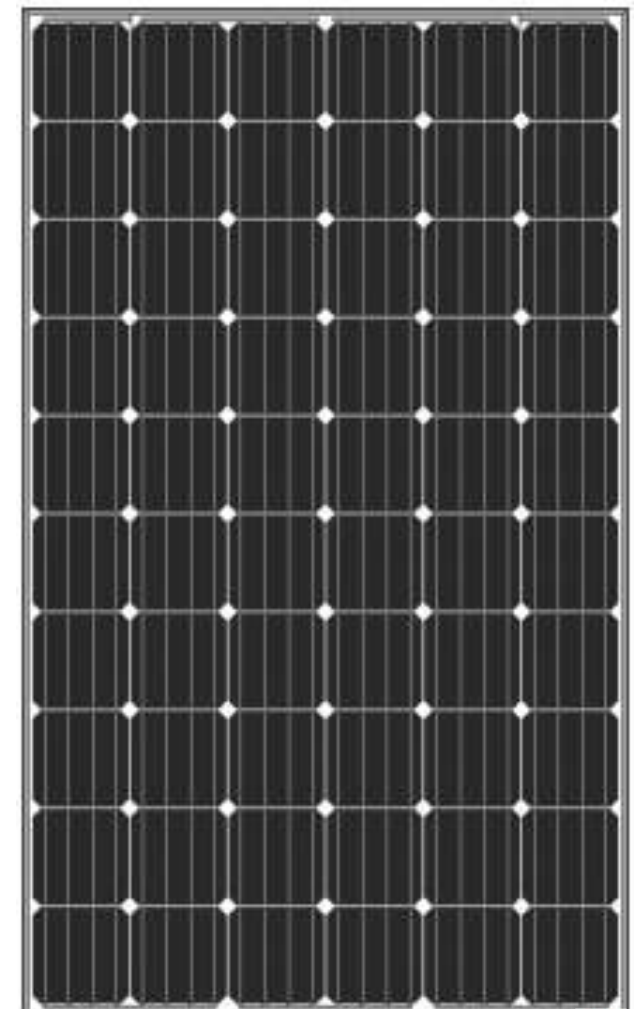
PV PANELS

AS-6M30 BLACK – 240-275W

ADVANCED PERFORMANCE & PROVEN ADVANTAGES

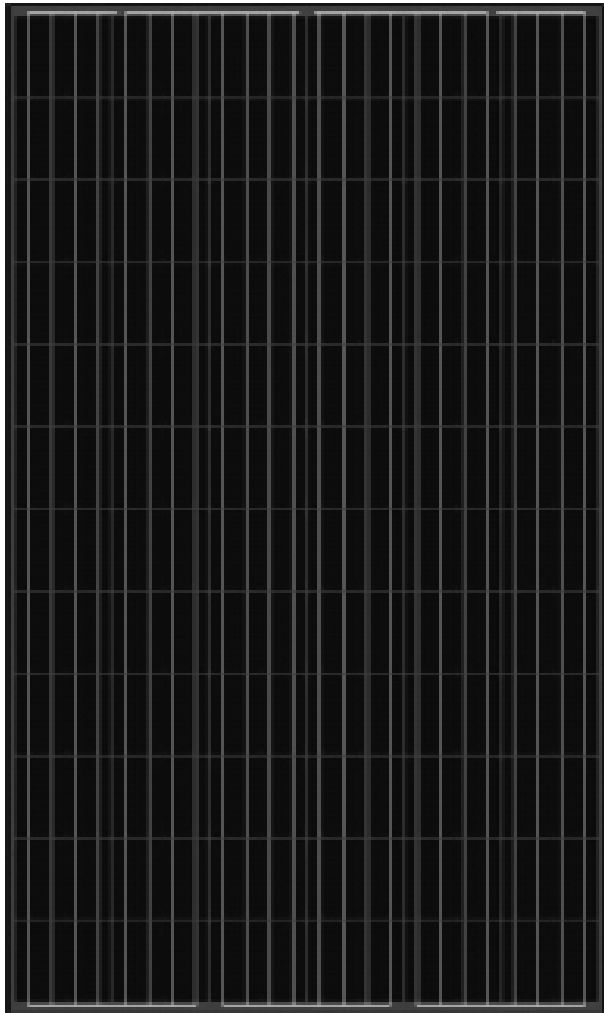
- ⌘ Aesthetically appealing design with black back sheet and frame.
- ⌘ High module conversion efficiency up to 16.90% through advanced manufacturing technology.
- ⌘ Low degradation and excellent performance under high temperature and low light conditions.
- ⌘ Robust aluminium frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- ⌘ Positive power tolerance of 0 ~ +3 %
- ⌘ High ammonia and salt mist resistance.
- ⌘ Potential induced degradation (PID) resistance.
- ⌘ 30 years performance warranty

MONOCRYSTALLINE



PV PANELS

POLYCRYSTALLINE



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AS-6P BLACK – 295W – 330W

- ✦ ADVANCED PERFORMANCE & PROVEN ADVANTAGES
- ✦ Aesthetically appealing design with black sheet and frame.
- ✦ High module conversion efficiency up to 17.01% through advanced manufacturing technology.
- ✦ Low degradation and excellent performance under high temperature and low light conditions.
- ✦ Robust aluminium frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- ✦ Positive power tolerance of 0 ~ +3 %.
- ✦ High ammonia and salt mist resistance.
- ✦ Potential induced degradation (PID) resistance.
- ✦ 30 years performance warranty

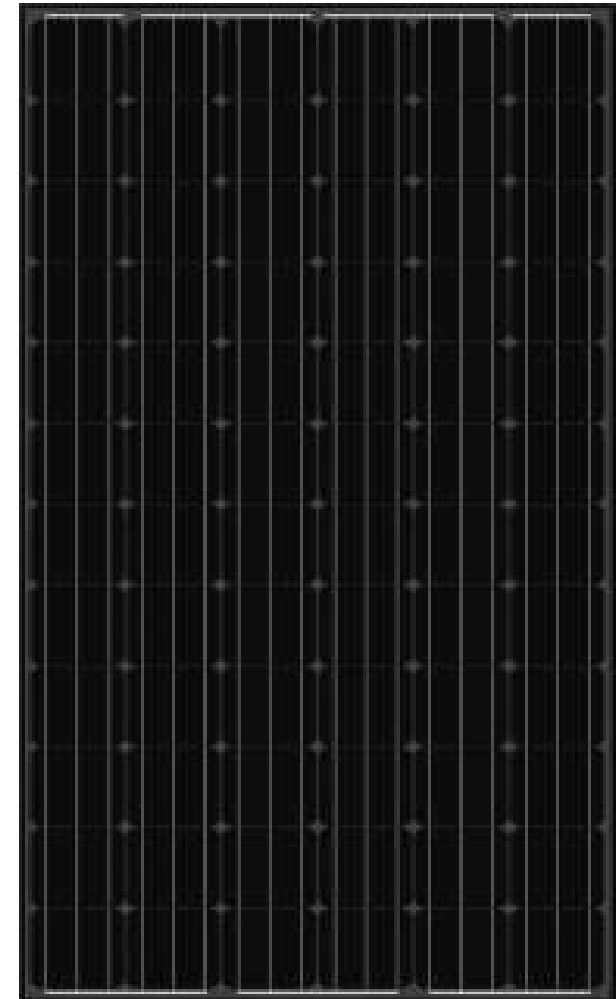
PV PANELS

AS-6M BLACK – 295W-330W

ADVANCED PERFORMANCE & PROVEN ADVANTAGES

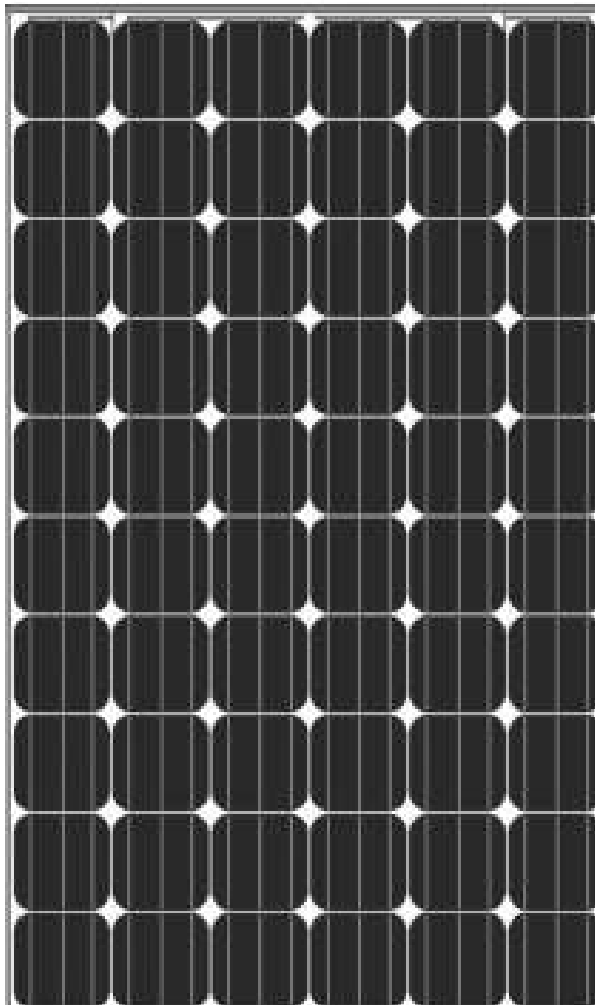
- ⌘ Aesthetically appealing design with black back sheet and frame. ⚡ High module conversion efficiency up to 17.01% through advanced manufacturing technology.
- ⌘ Low degradation and excellent performance under high temperature and low light conditions.
- ⌘ Robust aluminium frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- ⌘ Positive power tolerance of 0 ~ +3 %.
- ⌘ High ammonia and salt mist resistance.
- ⌘ Potential induced degradation (PID) resistance.
- ⌘ 30 years performance warranty

MONOCRYSTALLINE



PV PANELS

MONOCRYSTALLINE



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AS-6M30 – 240W – 275W

ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- ✦ High module conversion efficiency up to 16.90% through advanced manufacturing technology.
- ✦ Low degradation and excellent performance under high temperature and low light conditions.
- ✦ Robust aluminium frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- ✦ Positive power tolerance of 0 ~ +3 %.
- ✦ High ammonia and salt mist resistance.
- ✦ Potential induced degradation (PID) resistance.
- ✦ 30 years performance warranty

PV PANELS

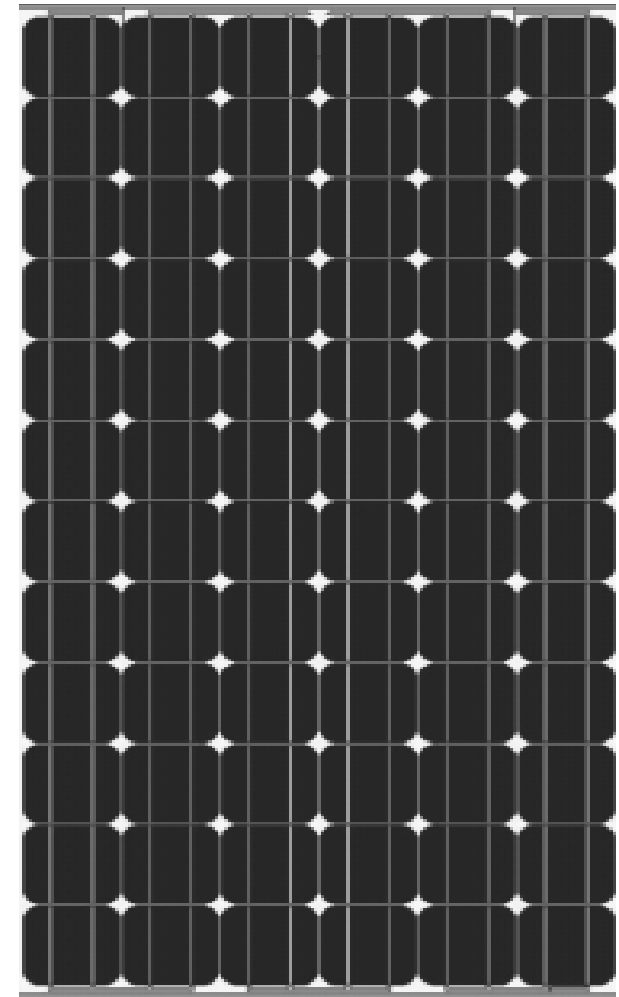
AS-5M – 185W – 210W

ADVANCED PERFORMANCE & PROVEN ADVANTAGES

High module conversion efficiency up to 16.45% through advanced manufacturing technology.

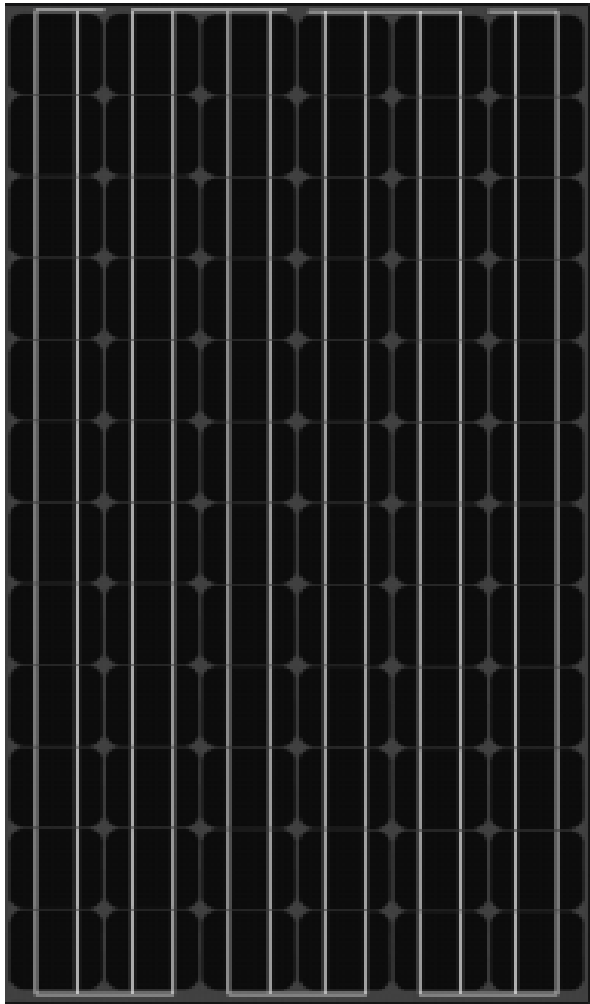
- ✧ Low degradation and excellent performance under high temperature and low light conditions.
- ✧ Robust aluminium frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- ✧ Positive power tolerance of 0 ~ +3 %.
- ✧ High ammonia and salt mist resistance.
- ✧ Potential induced degradation (PID) resistance.
- ✧ 30 years performance warranty

MONOCRYSTALLINE



PV PANEL

MONOCRYSTALLINE



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AS-5M BLACK – 185W – 210W

ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- ✦ Aesthetically appealing design with black backsheet and frame.
- ✦ High module conversion efficiency up to 16.45% through advanced manufacturing technology.
- ✦ Low degradation and excellent performance under high temperature and low light conditions.
- ✦ Robust aluminium frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- ✦ Positive power tolerance of 0 ~ +3 %.
- ✦ High ammonia and salt mist resistance.
- ✦ Potential induced degradation (PID) resistance.
- ✦ 30 years performance warranty

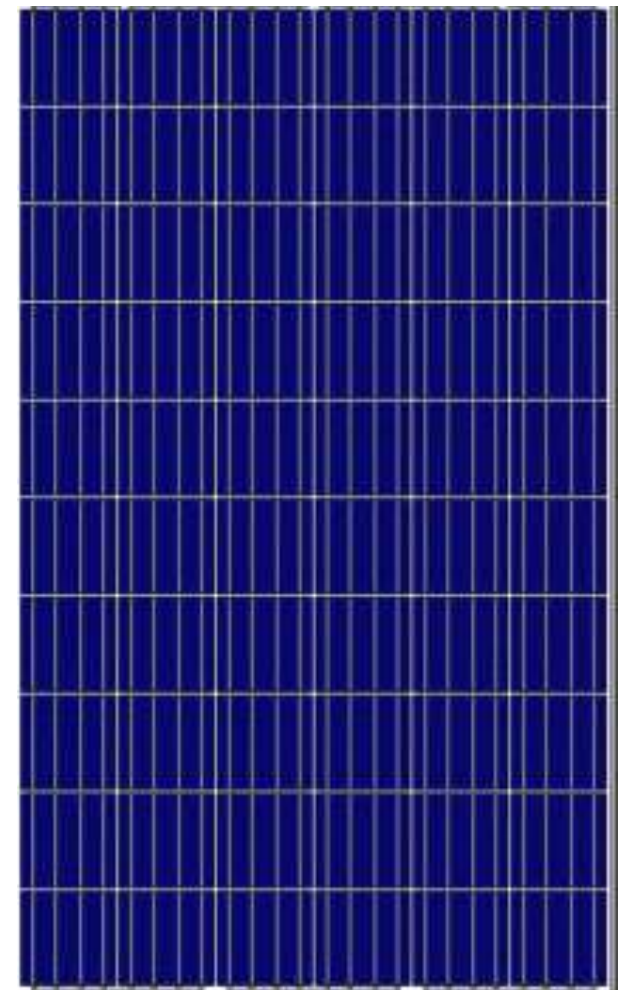
PV PANELS

AS-6P30 240W – 275W

ADVANCED PERFORMANCE & PROVEN ADVANTAGES

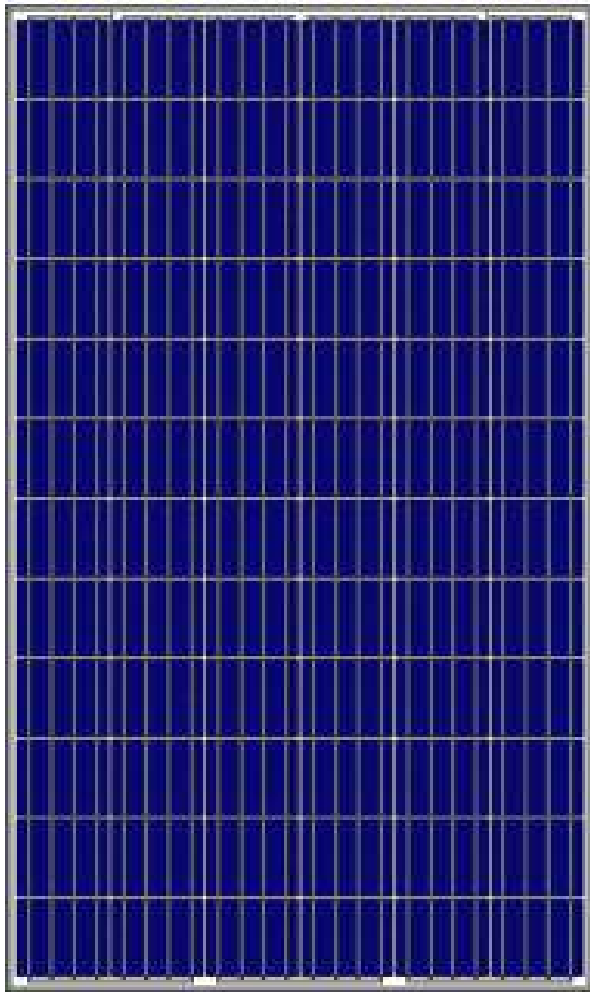
- ⌘ High module conversion efficiency up to 16.90% through advanced manufacturing technology.
- ⌘ Low degradation and excellent performance under high temperature and low light conditions.
- ⌘ Robust aluminium frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- ⌘ Positive power tolerance of 0 ~ +3 %.
- ⌘ High ammonia and salt mist resistance.
- ⌘ Potential induced degradation (PID) resistance
- ⌘ 30 years performance warranty

POLYCRYSTALLINE



PV PANELS

POLYCRYSTALLINE



www.vesselnetintegrated.com

AS-6P – 295 W– 330W

⌘ **ADVANCED PERFORMANCE & PROVEN ADVANTAGES**

- ⌘ High module conversion efficiency up to 17.01% through advanced manufacturing technology.
- ⌘ Low degradation and excellent performance under high temperature and low light conditions.
- ⌘ Robust aluminium frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- ⌘ Positive power tolerance of 0 ~ +3 %.
- ⌘ High ammonia and salt mist resistance.
- ⌘ Potential induced degradation (PID) resistance.
- ⌘ 30 years performance warranty

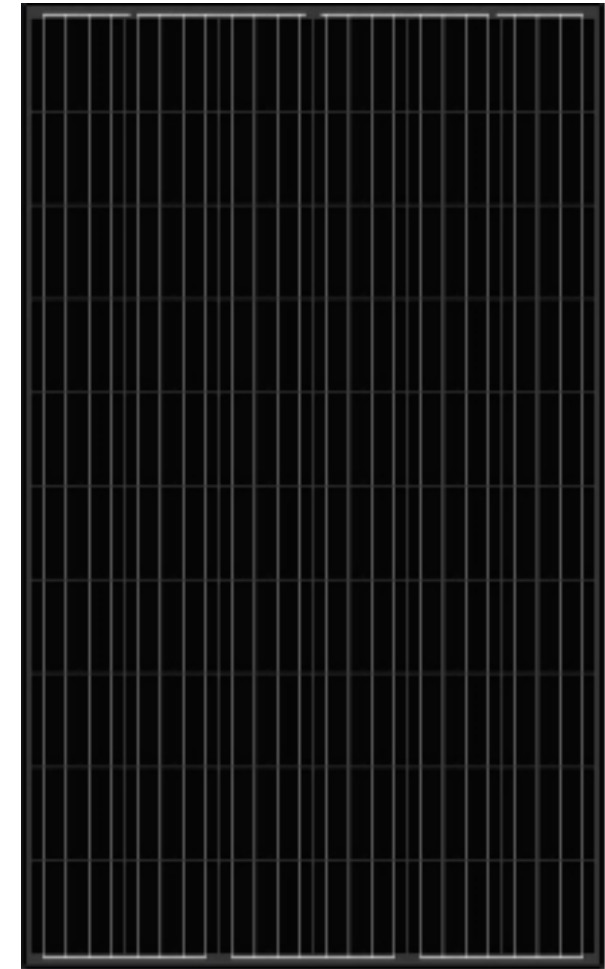
PV PANELS

AS-6P30 BLACK -240W – 275W

ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- ⌘ Aesthetically appealing design with black back sheet and frame.
- ⌘ High module conversion efficiency up to 16.90% through advanced manufacturing technology.
- ⌘ Low degradation and excellent performance under high temperature and low light conditions.
- ⌘ Robust aluminium frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- ⌘ Positive power tolerance of 0 ~ +3 %.
- ⌘ High ammonia and salt mist resistance.
- ⌘ Potential induced degradation (PID) resistance.
- ⌘ 30 years performance warranty

POLYCRYSTALLINE



BATTERY



- ✦ **RESERVED POWER BATTERY**
- ✦ Capacity Range – From 70 – 600 Ah
- ✦ Voltage Range - 12, 6, 4 and 2 Monoblocks and elements
- ✦ Terminals: 12V Front terminals / 6, 4 and 2V top terminals
- ✦ Design life: 12+ years (Long Life acc. EUROBAT),
Dimensions suitable for 19", 23" and ETSI racking
- ✦ Rack compatibility: Optional racks for 2V, 4V and 6V range.
- ✦ *Flame Retardancy: All models are F-V0 flame retardant*

- ✦ Capacity Range: From 100 to 170 Ah
- ✦ Voltage Range: 12 Monoblocks
- ✦ Terminals: 12V Front terminals
- ✦ Design life: 10+ years
- ✦ Rack compatibility: Dimensions suitable for 19", 23" and ETSI racking.
- ✦ Flame Retardancy: All models are F-V0 flame retardant



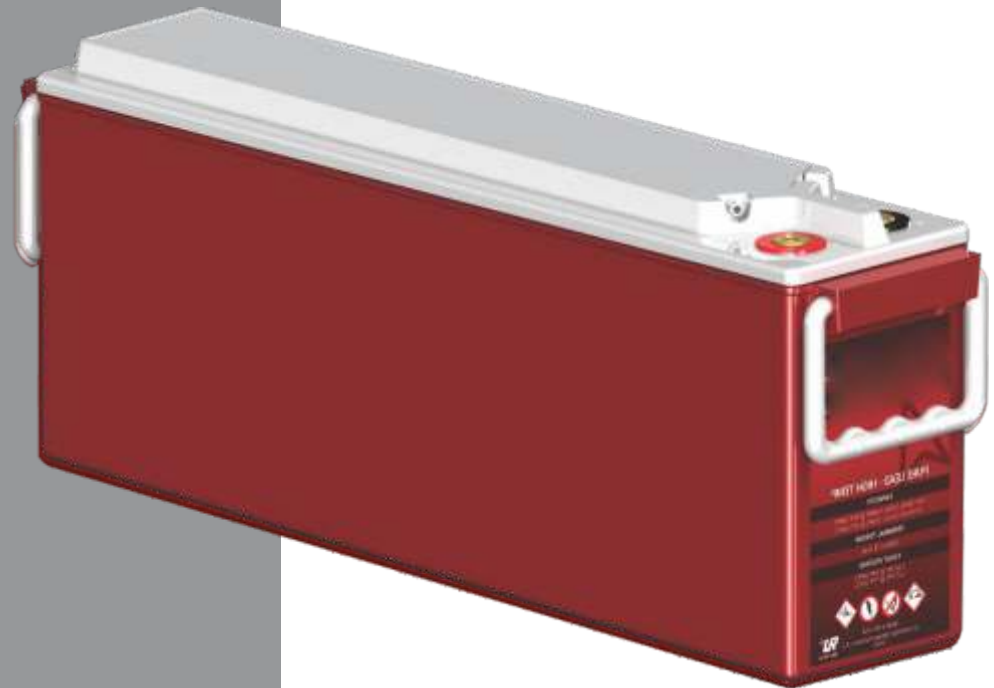
BATTERY



- ✧ Exceptional PSoC cyclic performance 2050 cycles @50% DoD
- ✧ Design life 12+ years at 20°C (68°F)
- ✧ EUROBAT design life definition: Very Long Life (12+ years)
- ✧ Ultra fast recharge
- ✧ Shelf life of up to 24 months
- ✧ Lead carbon added to negative electrodes increases power and reduces sulfation
- ✧ High potential fuel savings when used with hybrid genset applications
- ✧ Operating temperature range -40°C to +65°C (-40°F to 149°F)

BATTERY

- ✧ Pure lead electrochemistry greatly increases temp and corrosion resistance while reducing component aging
- ✧ Thin plates deliver large surface area high power density and low resistance
- ✧ Design life 15+ years at 20°C (68°F)
- ✧ Extra long life at high temp operation 40°C (104°F)
- ✧ EUROBAT design life definition: Very Long Life (12+ years)
- ✧ High cyclic performance
- ✧ Fast recharging
- ✧ Z



C O N T A C T U S

+234 1 295 3850 | +2349063063687

(info@vesselnetintegrated.com)

www.vesselnetintegrated.com

42OyiboAdjarhoStreet

Lekki Phase1, Lagos Nigeria.

 vislsolar  @vislsolar  @vislsolar

www.vesselnetintegrated.com