



AGRISOLAR

SOLAR SOLUTIONS



COMPANY PROFILE

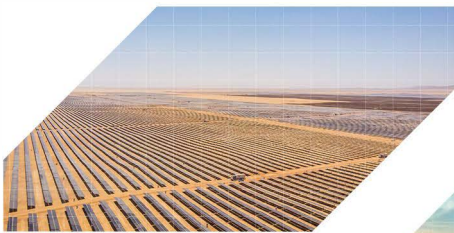
Content

1 . ABOUT US, VISION AND MISSION

2. SERVICES

3. SOLUTIONS

4. PRODUCTS



About

Agrisolar Founded since 2015
started focusing mainly on solar pumping systems,
we were keen to provide the most advanced solutions
that improve solar energy utilization
(on-grid, off-grid, and hybrid solution)

Agrisolar is one of the most important suppliers of internationally
respected brands in the energy field.



Vision

With continuous research and development.
AGRISOLAR is aiming to help solving energy
problems especially in agriculture sector in
Egypt and Middle East.



Mission

To introduce feasible solar energy solutions to the agriculture sectors,
so that solar energy becomes the main source
of energy for agriculture and other sectors.

Services



CUSTOM TAILORED SOLUTIONS: AGRISOLAR HAS A PROFESSIONAL, SKILLED TEAM THAT CAN MANAGE CUSTOMER REQUIREMENTS AND NEEDS AND PROPOSE/PROVIDE APPLICABLE DESIGN/SOLUTION BASED ON THE TURNKEY BASES TILL HANDING THE PROJECT OVER TO THE OWNER/END USER WHEN IT IS READY FOR OPERATION.



PERFORMANCE SIMULATION: AGRISOLAR INTRODUCES SIMULATION TECHNIQUES OF THE SOLAR PUMPING SYSTEM THROUGH THE YEAR, SO THAT ANY VARIABLES COULD BE CHANGED LIKE SUNLIGHT STRENGTH, MALFUNCTION ,ETC. WOULD ME NOTICES AND RECTIFYING ACTION WOULD BE TAKEN TO MAINTAIN THE SYSTEM EFFICIENCY AS HIGHERAS POSSIBLE.



SUPPLYING: SUPPLY ALL ASSOCIATED COMMODITIES FOR SOLAR SYSTEMS PUMPS, CABLES, PV MODULES, DRIVES, BATTERIES, OFF-GRID INVERTER, ON-GRID INVERTER.



AFTERSALES: PROFESSIONAL, SKILLED & FRIENDLY TEAM.

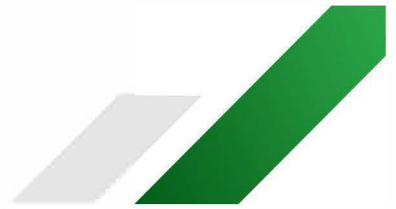


TECHNICAL SUPPORT : CONSULTING SERVICES, MAINTENANCE, TRAINING SERVICES.



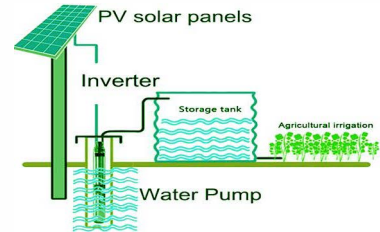
COMPETITIVE PRICES WITH HIGH QUALITY & CERTIFIED PRODUCTS.

Solutions



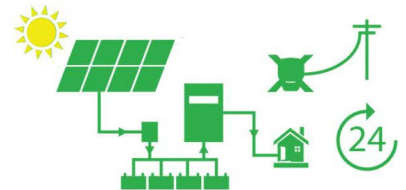
Solar Pumping Systems

GENERALLY, SOLAR PUMPING SYSTEMS MAKE USE OF THE SUNLIGHT (SOLAR ENERGY) TO POWER PUMPS AND ITS SIMPLE SYSTEMS THAT DO NOT INCORPORATE BATTERIES FOR STORING ELECTRICITY.



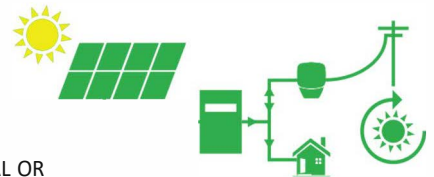
Off-Grid Systems

SOLAR RADIATION FROM THE SUN IS CAPTURED BY SOLAR PANELS, WHICH PRODUCE DC ELECTRICITY. THEN A CHARGE CONTROLLER CONVERTS THIS UNREGULATED DC POWER INTO REGULATED DC POWER TO STORE BATTERIES. THE BATTERIES ARE CONNECTED TO AN INVERTER WHICH CONVERTS THE DC ELECTRICITY INTO AC ELECTRICITY WHICH CAN BE USED DIRECTLY TO POWER AC LOADS AND APPLIANCES.



ON-Grid Systems

IS A SOLAR POWER GENERATION SYSTEM WHICH FEEDS THE GENERATED POWER INTO THE GRID, THROUGH A SPECIAL ON-GRID INVERTER. GRID CONNECTED SYSTEMS VARY IN SIZE FROM RESIDENTIAL (10-20KWP) TO SOLAR POWER STATIONS (UP TO 10S OF MW). IN THE CASE OF RESIDENTIAL OR BUILDING MOUNTED GRID CONNECTED PV SYSTEMS, THE ELECTRICITY DEMAND OF THE BUILDING IS MET BY THE PV SYSTEM. ONLY THE EXCESS IS FED INTO THE PUBLIC GRID



Hybrid solution (PV + Diesel)

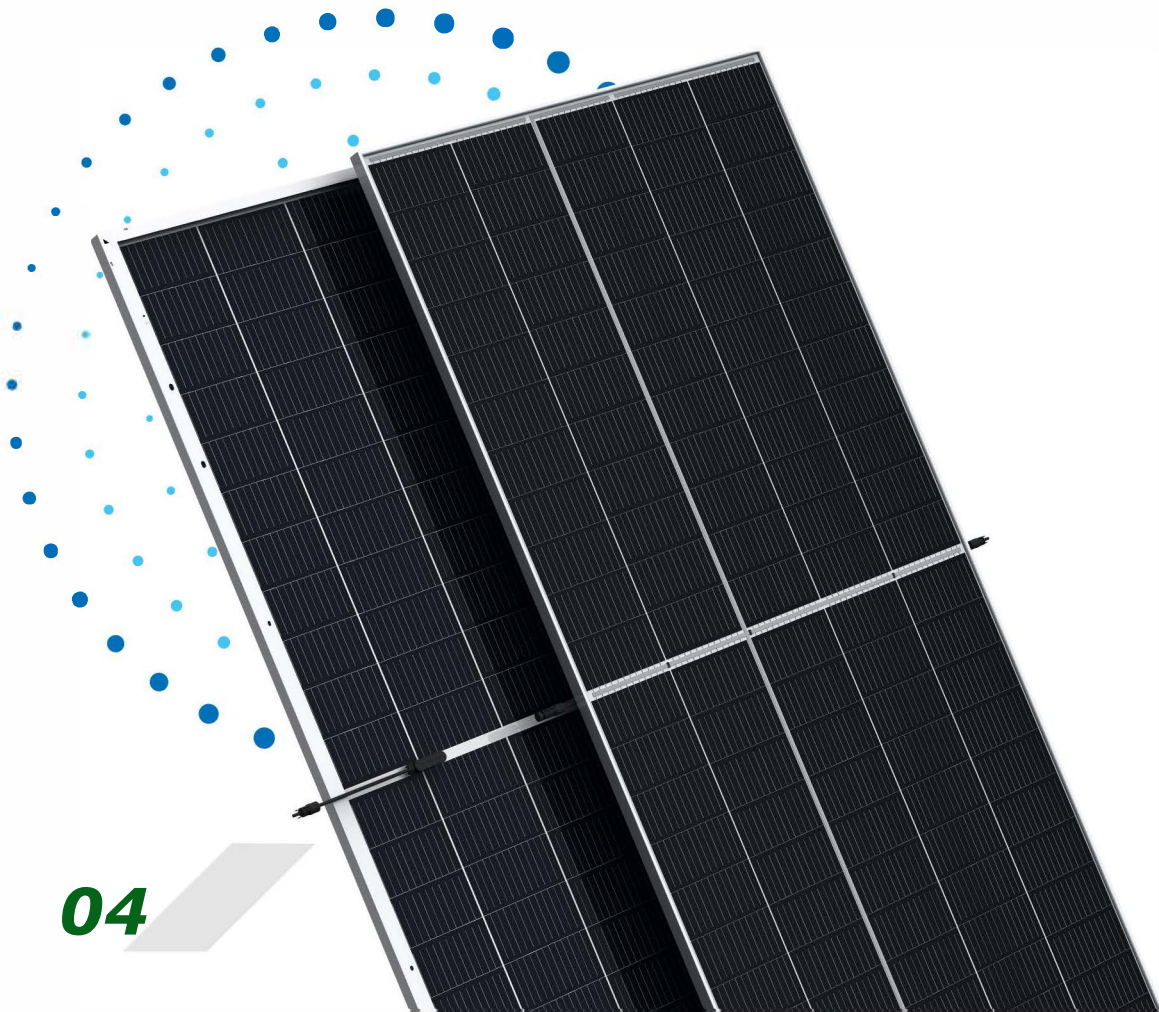
HYBRID MEANS SEAMLESSLY BLENDING SOLAR POWER WITH GRID OR GENERATOR POWER SOURCES. DYNAMIC COMBINATION OF POWER SOURCES, SO THAT THE PUMPING SYSTEM OPERATES AT ITS FULL LOAD UTILIZING THE SOLAR POWER AND MINIMIZING THE DEPENDENCE ON NON-RENEWABLE POWER SOURCES.





TRINA SOLAR IS THE WORLD'S LEADING TOTAL SOLUTION PROVIDER FOR SOLAR ENERGY AND AGRISOLAR IS THE AUTHORIZED DISTRIBUTOR IN EGYPT

- HIGH POWER CAPACITIES UP TO 670W
- MODULE EFFICIENCY MORE THAN 21 % WITH HIGH DENSITY INTERCONNECT TECHNOLOGY
- LINEAR PERFORMANCE WARRANTY.
- LOW TEMPERATURE COEFFICIENT
- EXCELLENT IAM (INCIDENT ANGLE MODIFIER).
- MECHANICAL PERFORMANCE UP TO 5400PA POSITIVE LOAD AND 2400PA NEGATIVE LOAD.
- MULTI-BUSBAR TECHNOLOGY.



Inverters

(Solar Pumping)

VACON
Danfoss



DANFOSS (Vacon) Pumping Inverter:

FULLPOWER CAPACITY UP TO 1000 HP (800 KW) AVAILABLE THROUGH AGRISOLAR AS THE AUTHORIZED DISTRIBUTOR IN EGYPT

FEATURES:

- HIGH EFFICIENCY MORE THAN %97.
- SOLAR PUMP INVERTER WITH BUILT-IN MPPT.
- ALL PUMP PROTECTIONS .
- HYBRID OPERATION (AC SUPPLY & PV SUPPLY)
- EXTENDED TEMPERATURE RANGES UP TO °60C WITH CURRENT DERATING.
- AVAILABLE PROTECTION DEGREES IP21& IP54
- FUNCTIONAL SAFETY TOV -TESTED
- ELECTRICAL SAFETY TOV -TESTED
- EMCTOV -TESTED



invt



INVT Products.

-START OR SLEEP AUTOMATICALLY ONLY AFTER BEING CONNECTED TO SOLAR PANEL WITHOUT SETTING ANY PARAMETER.

-INCLUDE PV OVER-VOLTAGE PROTECTION, PV POLARITY REVERSE WARNING, AUTO-DERATING AGAINST OVER-TEMPERATURE ETC, EXTENDING PRODUCT'S LIFE.

-ENSURE THE SOLAR POWER TRACKING EFFICIENCY REACHES %99

-IMPLEMENT AUTO SWITCH OR HYBRID FUNCTION BETWEEN SOLAR INPUT AND DIESEL.

-SUPPORT GPRS MODULE, WHICH CAN REMOTELY MONITOR THE INVERTER BY USING THE APP



solis

(ON-Grid)

SOLIS ESTABLISHED IN 2005 AND HAS ONE OF THE WIDEST INSTALLED BASES OF STRING INVERTERS GLOBALLY WITH OUR INVERTERS CONVERTING DC TO AC POWER AND INTERACTING WITH UTILITY GRID IN MARKETS AROUND THE WORLD.

AGRISOLAR IS AN AUTHORIZED DISTRIBUTOR IN EGYPT

- AVAILABLE THROUGH WIDE RANGE OF POWER RATINGS (3.6- 250) KVA.
- COMPATIBLE WITH THE EGYPTIAN GRID CODE.
- MULTIPLE PROTECTIONS LEVELS.
- MULTIPLE MPPT DESIGN WITH PRECISE MPPT ALGORITHM.
- HIGH DC/AC RATIO (UP TO 150%).
- GLOBALLY RECOGNIZED BRANDED COMPONENTRY FOR LONGER LIFE.



newmox



MAINTENANCE-FREE SEALED GEL BATTERIES ENGINEERED SPECIFICALLY TO SATISFY THE NEED FOR FREQUENT DEEP-CYCLE FROM PHOTOVOLTAIC(PV) AND RENEWABLE ENERGY STORAGE APPLICATIONS.

- SEALED AND MAINTENANCE FREE / NON-SPILLABLE CONSTRUCTION DESIGN
- CASE/COVER MAT: HIGH-STIFFNESS ENGINEERING PP PLASTIC (HEAT DEFLECTION TEMP. 140)
- SAFETY VALVE & FLAME ARRESTOR INSTALLATION FOR EXPLOSION PROOF.
- AVAILABLE CAPACITY: 200&150,100AH.



MUST[®] (OFF-Grid)

MULTI-FUNCTIONAL INVERTER/CHARGER.
IT IS HAS COMPREHENSIVE LCD DISPLAY CHARGING- CURRENT, INPUT VOLTAGE ETC...

- PURE SINE WAVE SOLAR INVERTER
- HIGH PV INPUT VOLTAGE RANGE
- BUILT-IN MPPT & PWM SOLAR CHARGER
- BUILT-IN ANTI-DUST KIT FOR HARSH ENVIRONMENT
- SUPPORT PARALLEL OPERATION UP TO 3 UNITS .
- WIFI REMOTE MONITORING (OPTIONAL)
- COMPATIBLE TO GENERATOR



DC Combiner Box

COMBINER BOXES ARE ASSEMBLED LOCALLY AT AGRISOLAR FACTORY WITH HIGH QUALITY , COMPETITIVE PRICE , AND CUSTOMIZED DESIGNS BASED ON THE SOLAR SYSTEM REQUIREMENTS & THE STANDARD PROTECTION RULES.

- RELIABLE PROTECTION COMPONENTS.
- MULTI INPUTS AND OUTPUTS WITH GLANDS OR MC4 CONNECTORS.
- HIGH SENSITIVITY FOR FAULTS.
- TWO FUSES PER STRING PROTECTION.
- DC MCCB PROTECTION FOR OVERALL SYSTEM.
- SURGE PROTECTION .
- VENTILATION FANS AND FILTERS.



Top Cable

- INSULATION VOLTAGE UP TO 1800 VDC.
- LSZH (LOW SMOKE ZERO HALOGEN) INSULATORS BASED ON UNE-EN 1-60754 AND IEC 1-60754.
- VARIETY OF CROSS SECTIONS (25, 16, 10, 6, 4,....)MM²
- MAXIMUM SERVICE TEMPERATURE: ° 120c.
- MAXIMUM SHORT-CIRCUIT TEMPERATURE: °250C (MAX.5S).
- MINIMUM SERVICE TEMPERATURE: ° 40-C.
- FLAME NON-PROPAGATION BASD ON EN 1-60332 AND IEC 1-60332.
- REACTION TO FIRE CPR: CCA, SIB, D2, A 1, ACCORDING TO EN 50575.
- CHEMICAL & OIL RESISTANCE: EXCELLENT.
- UV RESISTANT BASED ON EN 50618
- O3 OZONE RESISTANT BASED ON EN 50618.
- WATER PRESENCE: ADS SUBMERGED.
- ESTIMATED LIFE TIME 30 YEARS BASED ON UNE-EN 2-602 16.



Diesel Inverter

(for pumping systems)



ONE OF AGRISOLAR SOLUTIONS WITH ACCURATE DESIGNS FOR DIESEL OPERATION SYSTEMS. IT PROVIDES THE REQUIRED PROTECTIONS & TOTAL CONTROL FOR THE GENERATOR TO OPTIMIZE THE FUEL CONSUMPTION & PROVIDE THE SUITABLE PROTECTIONS FOR THE SYSTEM SAFETY.

- *FUEL SAVING, EFFICIENT, AND RELIABLE OPERATION.*
- *REDUCE OPEX AND LOWER PAY BACK PERIODS.*
- *HIGH EFFICIENCY.*
- *SOFT STARTING FOR MOTORS AND LONG LIFE TIME.*
- *LOWER HARMONICS LEVELS.*
- *STABILITY OF THE OUTPUT VOLTAGE.*
- *MOTOR SPEED CONTROL ACCORDING TO THE REQUIRED FLOW AT DIFFERENT HEADS.*
- *DRY RUN PROTECTION.*
- *ALL REQUIRED MOTOR PROTECTIONS ARE BUILT IN THE INVERTER.*
- *REMOTE CONTROLLING AND MONITORING .*
- *LOWER CABLES NEEDED .*



Contact



Head quarter: office no. 45 El Safwa Plaza, 6 of October, Giza , Egypt

Factory: Plot (B02), CPC Industrial Park, 6 of October, Giza , Egypt



Info@agrisolar-eg.com



+202 383 422 56



+20 1111 195 596



AGRISOLAR



www.agrisolar-eg.com