

Elsy Industrial Systems FZC

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PRODUCTS



SOLUTIONS



SERVICES



“We are your back-up”



GF SERIES (1KVA - 10KVA)

- **Nominal input voltage** : 220VAC or 110VAC, 50/60 Hz
- **Nominal output voltage** : 220VAC or 110VAC+/-10%
- **Battery input voltage** : 12VDC / 48VDC
- **Application** : Industrial use and home application
- Output pure sine wave with big transformer (Low frequency design)
- Inbuilt intelligent big charger (bulk, absorption, and float)
- Cold start function
- High surge capacity to start difficult loads and handle overload conditions with reliability
- Perfect compatible with Generator

NT SERIES (1KVA - 6KVA)

- **Nominal input voltage** : 220VAC or 110VAC, 50/60 Hz
- **Nominal output voltage** : 220VAC or 110VAC+/-10%
- **Battery input voltage** : 12VDC/24VDC/48VDC/96VDC/192VDC
- Tubular battery / VRLA sealed maintenance free
- **Application** : Industrial use, office and home application
- Accurate pure sine wave output, compatible with different loads.
- Wide range of input and accurate output.
- LED / LCD display (optional)
- Over load & short circuit protection

EF SERIES (10KVA - 200KVA)

- **Nominal input voltage** : 380VAC/400VAC/415VAC, 50/60Hz
- **Nominal output voltage** : 220VAC or 110VAC+/-10%
- Inverter priority
- High efficiency
- Inbuilt transformer
- 7" color touch screen
- Overload & short circuit protection
- N+X Paralleling
- 3 phase input & single phase output (optional)

TM SERIES (1KVA - 50KVA)

- **Nominal input voltage** : 220VAC or 110VAC, 50/60 Hz
- **Nominal output voltage** : 220VAC or 110VAC+/-10%
- **Battery input voltage** : 12VDC/48VDC/110VDC/125VDC/240VDC
- AC / DC priority selection
- N+X Paralleling
- Active current sharing
- DC - AC isolation
- Over load & short circuit protection

Solar Inverters

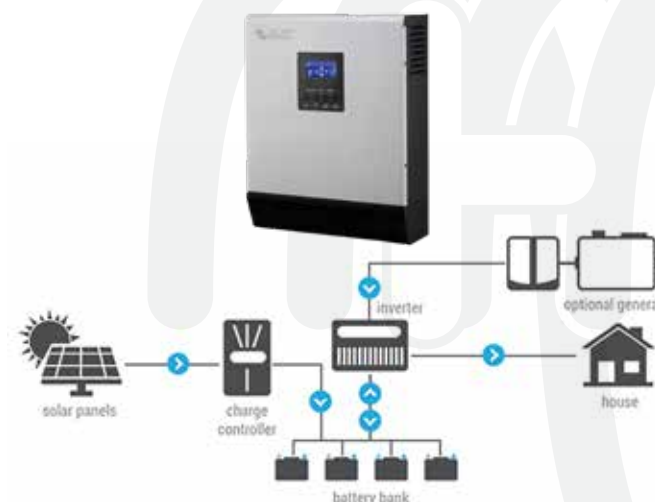
About Us



ON GRID INVERTER

TL SERIES (1KVA - 60KVA)

- High-efficiency up to 96%
- Wide input Voltage Range
- LCD/LED Display
- Safe and reliable for life cycle running
- Green saving and adapt to extreme environments
- Easy Installation
- Protection: Ground Fault, DC overvoltage
AC surge protection, DC reverse polarity
- Intelligent monitoring management (Optional)



OFF GRID INVERTER (1KVA - 60KVA)

- High reliability
- Wide input Voltage Range
- Stable frequency
- Fully digitalized microprocessor control
- UPS mode and inverter mode
- LED status indicator
- Cold Start
- Protections: Short circuit, Overload, over temperature,
Battery deep discharge protection
- Optional charging currents
- LCD display (Optional)



SOLAR PUMP INVERTER

PT SERIES (0.7KW - 37KW)

- Advanced MPPT technology enables real time detection of solar panels power. Tracking the highest voltage and current
- Shuttle center keyboard high accuracy encoder, with controlling accuracy 0.01Hz, having multiresolution setting function
- Using multiple power supply design, power input can use solar energy photovoltaic DC power supply
- Can be used as single phase or Three phase ac power supply
- Using wide voltage design, the inverter can remain stable under high and low voltage

WHO WE ARE

ELSY INDUSTRIAL SYSTEMS, established in 1980 is a reputed **ITALIAN** manufacturer of Industrial Type Power Conversion and Back-up Systems for critical applications.

ELSY INDUSTRIAL SYSTEMS FZC is a subsidiary office established in United Arab Emirates (U.A.E.) since 2012.

We are located in "**SHARJAH AIR PORT FREE ZONE**", this facility caters to the Middle East and African region for sales and product support.

Over the years, we have established a strong foothold in these markets and ELSY has become a synonym for power solutions in these regions.

Since inception, we have created a niche for ourselves and have partnered with key organizations in every relevant sector, ranging from Government entities, Healthcare, IT, Data centers, Airports, Safety & security, Education, Oil and Gas, Manufacturing Industry, Entertainment, Metro Rail, Telecom and Hospitality.

WHAT WE DO

What sets us apart ?

We don't just supply power products. We provide tailor made solutions, our key feature being, round the clock support for survey, installation and post sales services.

Thus, making it safe to say, "**We are your back-up**"

Our specialized products:

- UPS Systems (Industrial Applications and Data Centre Applications).
- Servo Controlled Voltage Stabilizers.
- Static Voltage Stabilizers.
- Rectifiers / Battery Chargers / DC Power Supply Systems (12V, 24V, 48V, 110V, 220V).
- Static Frequency Converters (50Hz, 60 Hz, 400 Hz).
- Photo Voltaic Panels – Turnkey Solar Solutions.
- Pure Sine Wave Inverters & Charge Controllers (MPPT & PWM).
- VRLA / Sealed Maintenance Free Batteries (Gel & AGM).
- Nickel Cadmium Batteries.
- Lithium Ion Batteries.

WHY US

Significant advantages of working with us ?

- ✓ State of the art manufacturing process.
- ✓ Strong R&D team.
- ✓ Customized solutions/products.
- ✓ Competitive prices.
- ✓ Ready stock - UAE.
- ✓ Troubleshooting facility - UAE.
- ✓ High quality and high efficiency products.
- ✓ Site visit / Survey / Turnkey solution / Installation
- ✓ Advanced warehouse management system.
- ✓ 24/7 direct technical support.
- ✓ Certified technical trainings for partners.

Broad Spectrum of Applications

Solar

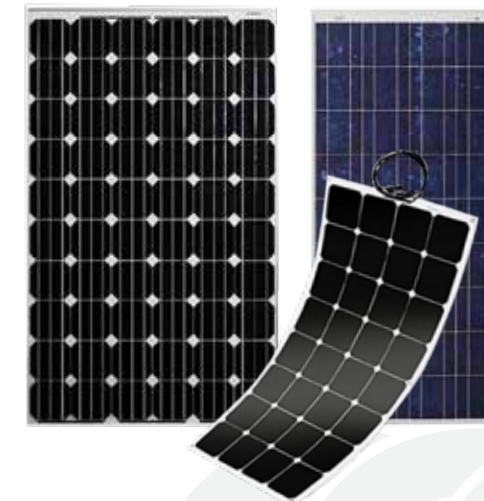


PHOTO VOLTAIC PANEL SOLAR POLY AND MONO ECS SERIES - (10WATTS – 300 WATTS)

- High conversion efficiency through advanced manufacturing efficiency
- Excellent performance under weak light condition (Mornings, Evenings and Cloudy days)
- With stand snow load up to 5400 Pa and wind loads up to 2400 Pa under extreme temperature
- 10 years product warranty and 25 years performance warranty ensure reliability of modules
- Easy Installation



PWM Controller: 5AMP to 80 Amp.

MPPT Controller: 5AMP to 200 Amp.

- High Reliability: Latest electronic and environmental protections, quality control, and design considerations comply with IEC standard and promote longevity in harsh environments
- High Temperature operation: $-20^{\circ}\text{C} \sim +55^{\circ}\text{C}$
- Self Diagnostic: Adopt temperature compensation, correct charging and discharging parameters automatically and improve the battery lifetime
- Display: Graphical LCD display or operating parameters, fault messages, self test
- Automatic Battery Selection: 12/24V
- Protection: Overcharge, deep discharge, reverse polarity protection of load, module and battery, over temperature and overload protection, battery overvoltage shutdown



SOLAR STREET LIGHT SERIES TY, EG & JB (10WATT – 150WATT)

- Solar Street light: (10Watt – 150Watt)
- Environment protection
- Energy saving
- Easy installation
- Long life span
- Maintenance free
- Low voltage
- safe and reliable



POCKET TYPE NICKEL CADMIUM RECHARGEABLE BATTERY KP SERIES (KPL, KPM & KPH) (1.2VDC, KPL, KPM & KPH) (10AH-1500AH)

- Exceptionally long service life : more than 20 years under floating charge
- Excellent charging efficiency and smooth discharge voltage
- Wide operating temperature range from -40°C ~ +60°C
- High reliability without sudden death
- Lower weight and reduced volume
- Excellent resistance performance of over-charge and over-discharge
- Resistance to mechanical and electrical abuse
- Lower maintenance cost and replacement cost



LITHIUM ION BATTERIES LYP SERIES (3V - 40AH to 3V - 10,000 AH)

- High power density
- Long float life and cycle life
- No capacity degradation from memory effect
- Withstand high charging current 3CA -20CA
- No damage due to deep discharge
- Excellent safety performance
- Safe for environment



BATTERY CABINETS & BATTERY MODULES SERIES : AKU, BC AND HOT SWAPPABLE BATTERY MODULE SOLUTION

- Unique design allows for easy battery maintenance
- Breaker and fuse options for single or multiple string applications
- Hinged, locking front door for easy and secure access
- Welded, heavy gauge steel construction.
- Multiple air ventilation and options for exhaust fan.
- Quick turn-around times
- Multiple battery configurations available
- Air gaps between batteries for longer life and better cooling
- Battery for modular UPS systems to be removed replaced or repaired without powering down a critical connected load



Rectifiers



ONE BRANCH SYSTEM

ALS SERIES

- **Nominal Input Voltage :** ALS 1- (230VAC 1Phase) & ALB 3 - (400VAC 3Ph)
- **Nominal Output Voltage :** 12VDC, 24VDC, 48VDC, 110VDC and 220VDC*
- **Output Current :** From 3 Amp -1000 Amp
- **Construction :** System assembled on metal plate or insertion in control cabinets
- **Backup time :** Standard / Extended on request
- Support for Sealed VRLA, Stationary or Ni-CD Batteries
- Automatic boost-charge after a battery discharge
- Three types of charging voltage can be implemented (Float charge, boost charge and manual charge)



ONE BRANCH SYSTEM

ALB SERIES

- **Nominal Input Voltage :** ALB 1 - (230VAV 1Phase) & ALB 3 (400VAC 3Ph)
- **Nominal Output Voltage :** 12VDC, 24VDC, 48VDC, 110VDC and 220VDC*
- **Output Current :** From 5 Amp -1000 Amp
- **Construction :** System assembled in independent cabinet
- **Backup time :** Standard / Extended on request
- Support for Sealed VRLA, Stationary or Ni-CD Batteries
- Automatic boost-charge after a battery discharge
- Three types of charging voltage can be implemented (Float charge, boost charge and manual charge)



TWO BRANCH SYSTEM

ASCB SERIES

- **Nominal Input Voltage :** ASCB 1 - (230VAC 1Phase) & ASCB 3 (400VAC 3Ph)
- **Nominal Output Voltage :** 12VDC, 24VDC, 48VDC, 110VDC and 220VDC*
- **Output Current :** From 5 Amp -1000 Amp
- **Construction :** System assembled in independent cabinet
- **Backup time :** Standard / Extended on request
- Support for Sealed VRLA, Stationary or Ni-CD Batteries
- SCR technology
- Rectifier bridge dimensioned for full power
- RS (load branch) rectifier dimensioned for loads supply
- RB (battery charger branch) rectifier dimensioned for battery charge



MODULAR RECTIFIER / CHARGER

SLB SERIES

- **Nominal Input Voltage :** 230VAV 1Phase
- **Nominal Output Voltage :** 24VDC, 48VDC, 110VDC and 220VDC*
- **Output Current :** From 10 Amp -70 Amp Modules
- **Construction :** System assembled in rectifier chassis
- **Backup time :** Standard / Extended on request
- Support for VRLA-AGM, VRLA-Gel, Nickel Cadmium, Lead Acid Batteries
- Hot swap technology, plug and play design
- Easy to expand, N+1 redundant mode

Battery



VALVE REGULATED LEAD ACID

BATTERY AGM TYPE

NP - SERIES (12VDC,7AH-26AH)

- AGM (absorbed glass mat) technology
- High performance
- Extra power output for backup applications
- Cyclic use & maintenance free
- Low self discharge & long life design
- High reliability & stability
- 10 years design life



VALVE REGULATED LEAD ACID

BATTERY AGM TYPE

NPM - SERIES (12VDC,40AH-200AH)

- AGM (absorbed glass mat) technology
- High performance
- Extra power output for backup applications
- Cyclic use & maintenance free
- Low self discharge & long life design
- High reliability & stability
- 10 years design life



VALVE REGULATED LEAD ACID

TUBULAR GEL BATTERY (2VDC,200AH-3000AH)

- Tubular plates with gel electrolyte provides super strong life time
- No leakage, maintenance free for green energy
- High charge acceptance
- Good deep discharge recovery performance
- Wide operation temperature
- 3500 cycle design life at 50% DOD, and 5500 cycles at 30% DOD
- Deep cycle design



VALVE REGULATED LEAD ACID

BATTERY GEL TYPE

NG - SERIES (12VDC,65AH-200AH)

- Safety Sealing
- Non-Spillable Construction
- High Reliability & Stability
- Sealed & Maintenance Free
- Safety & Quality Certification
- Longer life in deep cycle application
- 10 years design life

Automatic Voltage Stabilizer



SR-SERIES

1Phase (5KVA - 50KVA) / 3Phase (5KVA - 3000KVA)

- Servo drive base & micro controller controlled
- Fast regulation
- Wide correction interval
- High efficiency
- Protection from short circuit
- Digital display with bypass switch
- Under voltage & over voltage protection
- Over load & short circuit protection



ST-SERIES

1Phase (5KVA - 50KVA) / 3Phase (5KVA - 2000KVA)

- static voltage regulators combined with multi-tap auto transformer and microprocessor control
- Fast regulation module
- Work under various power factors
- Discriminate non-linear load
- Protection from short circuit
- Under voltage & over voltage protection
- Over load & short circuit protection



MC-SERIES - 1Phase (1KVA - 10KVA)

- Relay type single phase digital stabilizer
- Fast regulation
- Wide correction interval
- High efficiency
- Protection from short circuit
- Under voltage & over voltage protection
- Over load & short circuit protection



ISOLATION TRANSFORMER

QP SERIES (1KVA - 2000KVA)

- Reduces power line noise, spikes & transients
- Total isolation from input and output
- Three phase to single phase conversion
- High overload protection
- Flawless performance
- Excellent voltage regulation
- Compact design
- Trouble free performance
- Long functional life
- High overload capacity

Power Supply & Battery Charger



BATTERY CHARGER

XBD SERIES (12V / 24V, 6A - 30A)

- Automatic charger adopts switching power supply and intelligent charging technology
- Work automatically without inspection
- Auxiliary power supply for starting of generator and automobiles
- Variable charge current settings
- High efficiency with linear frequency
- Customization on request



DC/DC CONVERTERS

- **Nominal input voltage :** 24VDC, 48VDC, 110VDC, 220VDC
- **Nominal output voltage :** 24VDC, 48VDC, 110VDC, 220VDC
- Continuous voltage Dc/Dc converter (Chopper)/IGBT technology
- Output stabilization +/- 1%
- Fitting-up on-plate or in-box
- Parallel configuration
- IGBT technology
- Automatic current limitation



LINEAR POWER SUPPLY

LM SERIES

- **Nominal input voltage :** 85VAC-264VAC, 50/60Hz
- **Standard output range :** 5VDC-150W, 12VDC-150W, 24VDC-150W, 27VDC-150W, 48VDC-150W
- Built-in EMI filter with tiny ripple
- 100% full load burn-in test
- Small size and high efficiency
- Over voltage, over current & short circuit protection
- Recovers automatically after fault condition is removed
- Customization on request



DC POWER SUPPLY WITH BACK UP SYSTEM

SI SERIES

- **Nominal input voltage :** 190VAC - 240VAC, 50/60Hz
- **Output voltage :** 12VDC - 24VDC
- Max. output current : 20Amp
- Max. charge current : 1.8Amp
- Recommended battery : 12V-7Ah, 12V-9Ah, 12V-18Ah
- Output over-voltage protection
- Over-current / Short circuit protection
- Battery over-charge / deep-discharge protection
- Battery Polarity Protection

Uninterruptible Power Supply



ET - PLUS SERIES - 1Phase (1KVA - 3KVA)

- Online double conversion Technology
- Compact Design
- DSP Controlled Modular Structure
- Transformerless UPS Technology
- Cold Start Function
- Less Noise
- Available : standard / long run model
- Input / Output protection
- Smart RS232 Communication
- SNMP (Optional)



RT-SERIES & PR-SERIES - 1Phase (6KVA - 10KVA)

- Rack type UPS has adapted the highest level of DSP Control
- Transformerless design
- High Efficiency
- Overload and short circuit protection
- Suitable for server racks
- Cold start function
- Parallel features
- Available : standard / long run model
- SNMP (Optional)



PT - PLUS SERIES

1Phase (6KVA - 10KVA) / (3Phase/1Phase 10KVA-20KVA)

- Advanced 1 Phase Online UPS with DSP Technology
- Optimum stability and high performance
- Transformerless design
- High Efficiency
- Overload and short circuit protection
- Cold start function
- Parallel features
- Available : standard / long run model
- SNMP (Optional)



OUTDOOR UPS - 1Phase (1KVA - 10KVA)

- Strong environmental adaptability
- High reliability, energy saving, environmental protection
- Wide adaptability to power grid
- Pure sine wave technology
- Auto restart when mains power is restored.
- Available : standard / long run model
- Unattended and intelligent monitoring (option)
- Intelligent no-load shut-off (option)

Uninterruptible Power Supply



DS - SERIES - 3Phase (10KVA - 800KVA)

- 3 Phase Online UPS uses the latest DSP Technology
- High Efficiency up to 94%
- Compatible
- Parallel features
- Power rating from 10 kVA up to 800 kVA
- Available : standard / long run model
- SNMP (Optional)
- Isolation Transformer (optional)



PV-SERIES - 3Phase (10KVA - 600KVA)

- Advanced IGBT & DSP Technology with **Built-in Isolation Transformer**
- High Efficiency
- Compatible
- Touch screen technology
- Parallel features
- Smart RS232 communication
- 7" color touch screen
- Overload & short circute protection
- SNMP (optional)
- 3 phase input & single phase output (optional)



RM-SERIES - 3Phase (10KVA - 1500KVA)

- Modular Online UPS System
- Combining the latest three level IGBT and DSP technology
- High efficiency 95%
- Swappable power, battery and intelligence module
- Automatic internal bypass
- Touch screen technology
- Parallel features up to 1500 kVA
- Cold start function
- Smart RS232 communication
- SNMP (optional)



FREQUENCY CONVERTER

FC SERIES (6KVA - 200KVA)

- 50Hz in / 60Hz out, 60Hz in / 50Hz out
- 50Hz in / 400Hz out, 60Hz in / 400Hz out
- LCD alphanumeric front panel
- 128 event records with RTC
- Clock and calender (battery support)
- Remort control from RS232 port
- Three phase or single phase options
- SNMP communication (optional)