passion. create. smile.

# Exploring a different perspective within the IT and electrical industry



# More than a manufacturer.

Your trusted partner in power solutions.

# nJoy solutions effectively protect the electrical infrastructure from residential, commercial and industrial environments.

## WHO WE ARE?

nJoy is a business solution oriented company that manufactures high-quality Uninterruptible Power Supply (UPS) systems. Since our establishment in 2010, we have been committed to providing our business partners with reliable power protection solutions.

Lately, we have used the expertise in securing the electrical architecture and electronic equipment, to address the power generation market, through solar inverters and power storage solutions.



# PRODUCT RANGE

## IN FOCUS: UPS SERIES

At nJoy, we pride ourselves with our expertise in power protection technology. Our team is dedicated to designing, manufacturing, installing and maintaining UPS systems that meet the highest standards of quality and performance.

## NEW PATH: SOLAR INVERTERS

This product category expansion led us to venture into solar inverters and energy storage systems. By actively participating in the green energy segment, we aim to create and protect the positive impact on the environment and a more sustainable future.

## AVR: UNDERSTATED PROTECTORS

These products are an integral part of our range because they not only help adjust voltages to safe levels, but can also provide surge protection against electrical surges, spikes, and overload.

## BATTERIES & ACCESSORIES

Essential to our UPS and Solar Inverter categories, batteries and accessories are a supporting product category that proves its value when it comes to reliability and fine-tuning.

## LOVE FOR GAMING: PSU & PC CASE

We are constantly adjusting our range of products in this demanding and fast-paced environment. We aim to always include high quality components and materials and also ensure that we meet all tests and certifications.

# We are a business solution provider, not just a product manufacturer.

We are comprehensively handling the project needs of our client from concept, planning all the way to installation through dedicated assistance and support.

We are growing partnerships all over the world by relating and supporting their business actions with funds, technical knowledge and extra services (RMA, service centers, tech support, warranty extensions, installation partner network).

In order to ensure long-term business continuity with partners, and to provide their own in-house expertise to monetize, we are offering an extensive plan of action to train the technical department to carry out the installation and servicing process.



# Our OEM & ODM approach allows us flexibility for fast solution delivery.

We provide OEM/ODM services for businesses interested in customizing our products, collaborating with us to develop new products under the nJoy brand, or creating private label items for their own brands.



# MDC



# Forge MDC 3K-24U

The FORGE 3K-24U is a compact, all-in-one Micro Data Center (MDC) designed for rapid deployment, efficiency, and reliability. All equipment is pre-installed and pre commissioned in the factory.



| | |
|---|---|
| Input Power | AC 230V, 50/60Hz |
| Available Rack Space | 18U |
| Max space in rack | 24U |
| Equipment installed | UPS - Summit 3KR<br>PDU - Without meter<br>PDM - 6kW without meter<br>Host Monitoring<br>Sensors - Temperature, Humidity, Flood, Smoke |
| Recommended IT Load | 3KW |
| Rack Seismic Level | Certified Level 8 |

| | |
|---|---|
| Door system | Front Door - Single open mesh door with mechanical key lock<br>Rear Door - Double open mesh door mechanical key lock |
| Space clearance front and back for door access | 900mm |
| IP rating | IP20 |
| Floor support weight | 2000kg |
| Weight | 136 kg |
| Dimensions (W x D x H) | 600 x 1000 x 1200 mm |

- **Easy setup**
- **Smart cloud with remote access and monitoring**
- **Fully protected against fire and flood**
- **Welded Steel Frame**
- **IP rating of IP20**
- **Seismic Level 8 Protection**

# Forge MDC 6K-42U

Forge 42U-6K is a fully protected, high-capacity data center in a single unit that you can deploy anywhere; without building a server room. All equipment is pre-installed and pre commissioned in the factory.



| | |
|---|---|
| UPS Model used | Summit 6KR<br>UPCMCOP160HSMDB01B<br>Old PN: UPOL-OL06KFG-DB01B |
| Max. Power Rating | 6000 VA / 6000 W - P.F. 1 |
| Efficiency<br>(100% Load) | 95% in On-Line Mode<br>98% in ECO Mode<br>92% in Battery Mode |
| UPS type | Online<br>(Double Conversion - Pure sinewave) |
| Rated voltage | 220/230/240 V |
| Rated frequency | 50 / 60 Hz |

| | |
|---|---|
| Communication ports | USB, RS232, RJ45, Dry in, Dry out, Intelligent slot |
| Max number of EBM connected | 4 |
| Running time on battery<br>(w/ 1x R2011BX EBM containing<br>20 x HR09122F batteries<br>BTVACIUOCTD2FBT01B) | 25% Load - 58 min<br>50% Load - 24 min<br>75% Load - 14 min<br>100% Load - 10 min |
| Installation | Rackmount - 2U |
| Protection<br>Emergency Power Off<br>Surge rating energy | <br>Yes<br>445 Joules |

- **All in one air cooling**
- **Smart cloud with remote access and monitoring**
- **Fully protected against fire and flood**
- **10.1" interactive display to control the equipment**
- **IP50 rating**
- **Seismic Level 8 Protection**

# INDUSTRIAL UPS



# Ranger Series

Ranger three-phase UPS series is designed to fit industrial and technical automated business environments and is characterized by longevity and continuity due to its easy-to-replace (by the service personnel) power units.

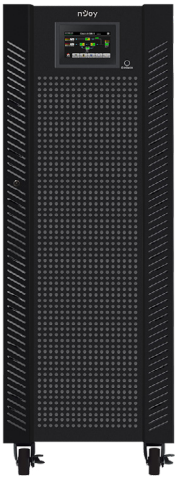


| Model | RANGER 30KT | RANGER 60KT | RANGER 120KT | RANGER 180KT |
|---|---|---|---|---|
| Type | On-line | | | |
| Phase | 3:3 | | | |
| Power | 30KVA / 30KW | 60KVA / 60KW | 120KVA / 120KW | 180KVA / 180KW |
| Internal batteries(optional) | Up to 80 (7Ah / 9Ah) | 0 internal batteries | | |
| Outlets | Terminal Block Wiring | | | |
| Features | Smart battery charger to optimize batteries' performance<br>Adjustable batteries design<br>Optional isolation transformer<br>DSP technology guarantees high performance<br>Active power factor correction in all phases<br>Maintenance bypass<br>7" large touch LCD display<br>Power management over SNMP / Modbus / AS 400 card<br>ECO mode operation for energy saving | | | |

- **Highly efficient power consumption.**
- **Maximum Reliability.**
- **UPS Design with easy-to-replace power modules in case of failure**
- **Cost efficiency**
- **Scalability**
- **Longer life cycle**
- **Low Cost of Ownership**
- **Long-term customer support**

# Garun Series

The Garun Series is a three-phase range (which comprises power units and battery cabinets) designed with advanced features for special industrial applications that fits in the entire electrical architecture of a space or building.



| Model | GARUN 10KL | GARUN 20KL | GARUN 40KL | GARUN 80KL |
|---|---|---|---|---|
| Type | On-line | | | |
| Phase | 3:3 / 3:1 / 1:1 | 3:3 / 3:1 / 1:1 | 3:3 | |
| Power | 10KVA / 10KW | 20KVA / 20KW | 40KVA / 40KW | 80KVA / 80KW |
| Internal batteries (optional) | Max 20pcs<br>7Ah/9Ah | Up to 40pcs<br>7Ah/9Ah | Up to 80pcs<br>7Ah/9Ah | |
| Outlets | Terminal Block Wiring | | | |
| Features | Output Power Factor 1.0 / High efficiency up to 95.5%<br>3-stage extendable charging design for optimized battery performance / Emergency power off function (EPO)<br>Optional isolation transformer / DSP technology guarantees high performance<br>Active power factor correction in all phases / Maintenance bypass<br>4.3" large touch LCD display / Software Management / SNMP card/ Modbus card / AS 400 card | | | |

- **Continuous productivity in case of power supply interruption.**
- **Quality of products and services.**
- **On-Site security and safety for human workers and industrial robots.**
- **Distance communication protocol.**
- **Long-term customer support.**
- **Reduced maintenance costs.**

# Battery Cabinets

Downtime costs for critical applications, in particular in industrial environments, are very high. These applications must remain in operation as long as possible, therefore both, the UPS and the battery cabinet, can accommodate batteries.

## For Ranger Series

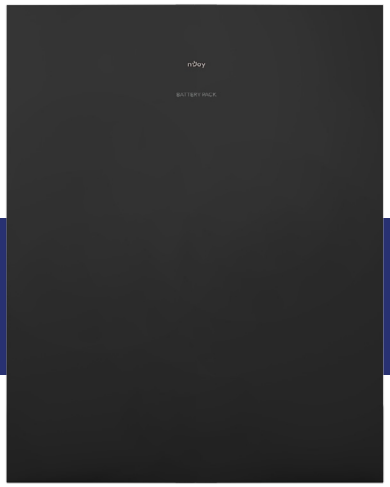
| Compatibility | Ranger 30KT | Ranger 60KT | Ranger 120KT | Ranger 180KT |
|---|---|---|---|---|
| Number of batteries supported | TA2422B / TB2421E / TC2421H<br>From 32 to 80pcs of 7Ah to 9Ah (TA2422B)<br>From 32 to 40pcs of 15Ah to 48Ah (TB2421E)<br>From 32 to 40pcs of 100Ah (TC2421H) | TB2421E / TC2421H<br>From 32 to 40pcs of 15Ah to 48Ah (TB2421E)<br>From 32 to 40pcs of 100Ah (TC2421H) | TC2421H / TC2421IX / TC2421JX<br>From 32 to 80 pcs of 100Ah | TC2421IX / TC2421JX<br>From 32 to 80 pcs of 100Ah |

## For Garun Series

| Compatibility | Garun 10KL | Garun 40KL | Garun 60KL - 80KL |
|---|---|---|---|
| Number of batteries supported | TA1222A<br>From 20 to 40pcs of 7Ah to 9Ah | TA2422B / TB2421E / TC2421H<br>From 32 to 80 pcs of 7Ah to 9Ah (TA2422B,)<br>From 32 to 40 pcs of 15Ah to 48Ah (TB2421E)<br>From 32 to 40 pcs of 65Ah to 100Ah (TC2421H) | TB2421E / TC2421H<br>From 32 to 40 pcs of 15Ah to 48Ah (TB2421E)<br>From 32 to 40 pcs of 65Ah to 100Ah (TC2421H) |

The UPS system was created to offer great flexibility for a better cost management. Offers availability for future system adaptation, in case of additional load is required up to 3 UPSes can be installed in parallel and in need of increased back up time multiple battery cabinets can be added.

TC2421JX /TC2421IX
TC2421H/TB2421E



TA2421E



TA2422B



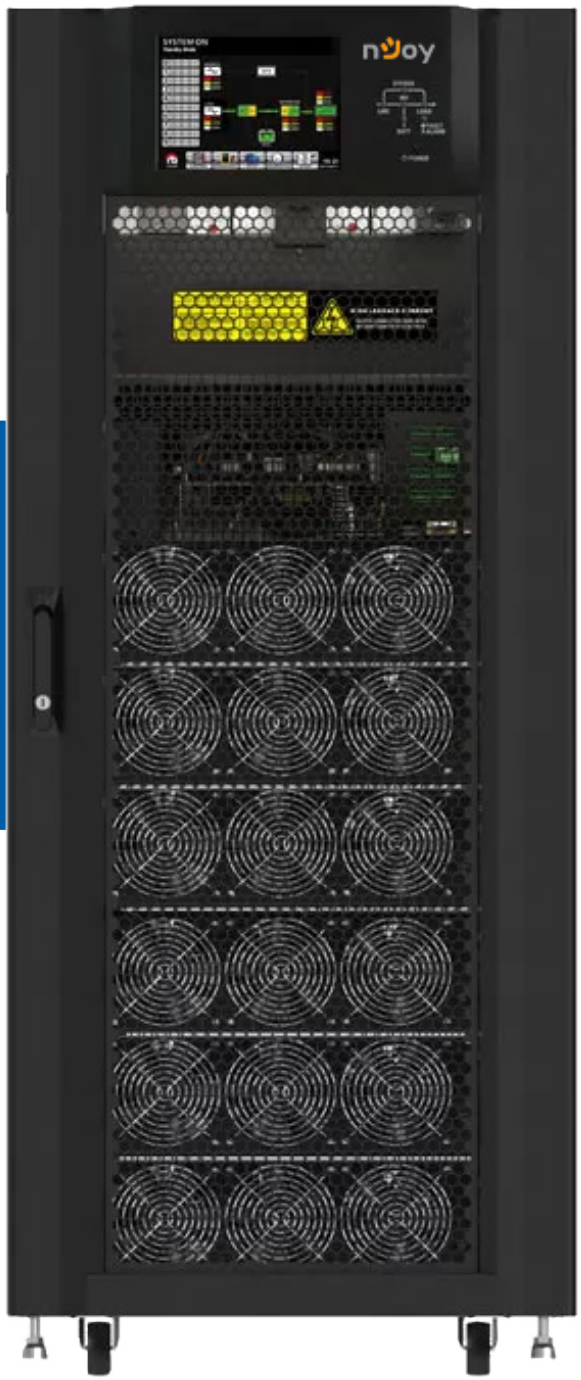
TA1222A



# IN DEVELOPMENT

## Sector - Modular UPS

- 300kW / rack (30kW module x 10)
- Architecture based on power and battery modules
- Hot-swap feature
- Data Centers
- Highly scalable (vertical and horizontal, hybrid)



# COMMERCIAL UPS



# Balder Series

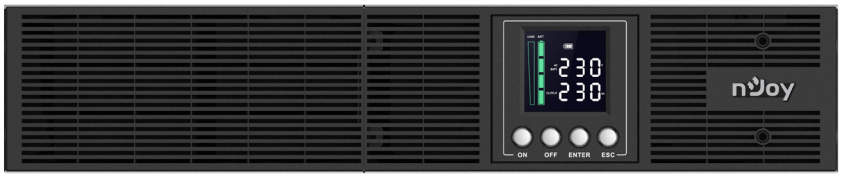
It uses the newest technology - true double conversion with PF = 1. It is a versatile equipment that can be used in many areas and it have the possibility to be mounted in rack or as a tower.



| Model | BALDER 1K | BALDER 1.5K | BALDER 2K | BALDER 3K | BALDER 6K | BALDER 10K |
|---|---|---|---|---|---|---|
| Type | On-line | | | | | |
| Power | 1KVA / 1KW | 1.5KVA / 1.5KW | 2KVA / 2KW | 3KVA / 3KW | 6KVA / 6KW | 10KVA / 10KW |
| Outlets | 8 IEC C13 | | | 8 IEC C13 + 1 IEC C19 | Terminal Block Wiring | |
| Internal batteries | 3 x HR07122F HR09122F | 3 x HR07122F HR09122F | 6 x HR07122F HR09122F | 6 x HR07122F HR09122F | Requires nJoy EBM 2U or 3U | |
| Batteries in EBM | Max 6 pieces in 2U | | Max 12 pieces in 2U | | Max 16 pieces in 2U<br>Max 20 pieces in 3U | |
| Features | Output Power Factor 1.0<br>High efficiency up to 99% (Balder 6K and Balder 10K)<br>Emergency power off function (EPO)<br>Software Management<br>User-friendly and easy-shift LCD<br>RS232 / USB<br>Intelligent Port (not included in the package)<br>Battery Warranty: 2 years | | | | | |

# Aster Series

An affordable on-line double conversion UPS for the commercial segment, a rack-mountable mainstream product with complementary external battery cabinet.



| Model | ASTER 1K | ASTER 2K | ASTER 3K | ASTER 6KT | ASTER 10KT |
|---|---|---|---|---|---|
| Type | On-line | | | | |
| Power | 1000VA/900W | 2000VA/1800W | 3000VA/2700W | 6000VA/5400W | 10000VA/9000 W |
| Outlets | 8 x IEC-320 C13 | 8 x IEC-320 C13 | 8 x IEC-320 C13 + 1 x IEC-320 C19 | Terminal Block Wiring | Terminal Block Wiring |
| Internal batteries | 3 x GP07122L | 6 x GP07122L | 6 x GP09122L | 16 X GP07122L (Not included) | 16 x GP09122L (Not included) |
| Batteries in EBM | Max 6 pieces in 2U | Max 12 pieces in 2U | | | |
| Features | Pure sine-wave output<br>HID USB / SNMP Card / Software management<br>Energy saving / Cold start function<br>External battery pack (optional)<br>Generator compatible | | | Pure sine-wave output HID USB / SNMP Card / Software management<br>Energy saving<br>Cold start function Generator compatible | |

# Theron 800

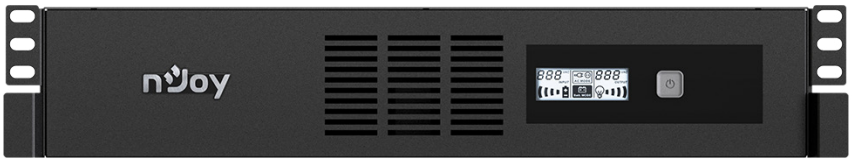
Theron is a PDU (Power Distribution Unit), used to save rack space in data centers, server rooms, and other networking environments while distributing electric power to multiple pieces of equipment, with integrated UPS.




| Model | THERON 800 |
|---|---|
| Type | Off-line (VFD) |
| Power | 800VA / 480W |
| Outlets | 8 Schuko socket |
| Battery | 1x GP09122L |
| Features | Support APFC Equipment<br>Auto-Restart/Auto-Charge<br>Cold Start Function<br>HID USB Communication<br>Compact Size - Rack 2U<br>Front Installation & Maintenance |

# Code Series

It is a price-oriented rack-mountable UPS from the commercial line with management and IEC C13 connectors. No features are installed, keeping the solution as simple as possible in order to benefit from its low price position.




| Model | CODE 800 | CODE 1000 | CODE 2000 |
|---|---|---|---|
| Type | Line-interactive | | |
| Power | 800VA / 480W | 1000VA / 600W | 2000VA / 120W |
| Outlets | 4 IEC C13 | | 8 IEC C13 |
| Battery | 1 x GP09122L | 2 x GP07122L | 2 x GP09122L |
| Features | Auto restart function<br>Line-interactive<br>Energy saving<br>Automatic Voltage Regulation<br>Software management<br>Cold start function<br>Off mode charging | | |

# Echo Pro Series

It is a price-value series with on-line topology, with all the crucial features for the commercial environment. It offers the best price - features ratio from our range.



| Model | ECHO PRO 1000 | ECHO PRO 2000 | ECHO PRO 3000 |
|---|---|---|---|
| Type | On-line | | |
| Power | 1000VA / 800W | 2000VA / 1600W | 3000VA / 2400W |
| Outlets | 3 Schuko Battery Backup & Surge Protection | 3 Schuko Battery Backup & Surge Protection | 4 Schuko Battery Backup & Surge Protection |
| Battery | 2 x GP07122L | 4 x GP07122L | 6 x GP07122L |
| Features | On-line double conversion / Up to 90% efficiency rates<br>HID USB, RS-232, SNMP port communication<br>Generator compatible | | |

# Cadu Series

This is a professional tower UPS that covers a lot of market segments and it was created especially for business equipment. The main reason we created Cadu series is to have an UPS with high performance with many features required in its segment.



| Model | CADU 650 | CADU 850 | CADU 1000 | CADU 1500 | CADU 2000 |
|---|---|---|---|---|---|
| Type | Line-interactive | | | | |
| Power | 600VA / 360W | 800VA / 480W | 1000VA / 600W | 1500VA / 900W | 2000VA / 1200W |
| Outlets | 2 Schuko Battery Backup & Surge Protection | | 4 Schuko Battery Backup & Surge Protection | | |
| Battery | 1 x GP07122F | 1 x GP09122F | 2 x GP07122F | 2 x GP09122F | |
| Features | Line-interactive - Simulated sine-wave<br>Automatic Voltage Regulation<br>HID USB communication port<br>1Gb/s LAN surge protection<br>Battery Replacement Alarm<br>Built-in super smart charger - 90% fully charged in 4 hours<br>Battery Warranty: 2 years | | | | |

# CONSUMER UPS



# Horus Plus Series

This UPS series was created for home usage when the user need good and safe management data. The reason behind creating this series is to have a medium range product with extra features like management software and LCD touchscreen.




| Model | HORUS PLUS 600 | HORUS PLUS 800 | HORUS PLUS 1000 | HORUS PLUS 1500 | HORUS PLUS 2000 |
|---|---|---|---|---|---|
| Type | Line-interactive | | | | |
| Power | 650VA / 360W | 800VA / 480W | 1000VA / 600W | 1500VA / 900W | 2000VA / 1200W |
| Outlets | 2 Schuko Battery Backup & Surge Protection | | 4 Schuko Battery Backup & Surge Protection | | |
| Battery | 1 x GP07122L | 1 x GP09122L | 2 x GP07122L | 2 x GP09122L | 2 x GP09122L |
| Features | Line-interactive<br>Simulated sine-wave<br>Software management<br>Touch screen LCD to display UPS information circularly<br>Boost and buck AVR for voltage stabilization<br>Cold start function | | | | |

# Keen Series

This is an UPS from Value Series which is consumer-oriented and is offering a minimal back-up and it's build for home usage.




| Model | KEEN 600/ KEEN 600 USB | KEEN 800/ KEEN 800 USB | KEEN 1000/ KEEN 1000 USB | KEEN 1500/ KEEN 1500 USB | KEEN 2000/ KEEN 2000 USB |
|---|---|---|---|---|---|
| Type | Line-interactive | | | | |
| Power | 600VA / 360W | 800VA / 480W | 1000VA / 600W | 1500VA / 900W | 2000VA / 1200W |
| Outlets | 2 Schuko Battery Backup & Surge Protection | | 4 Schuko Battery Backup & Surge Protection | | |
| Battery | 1 x GP07122L | 1 x GP09122L | 2 x GP07122L | 2 x GP09122L | 2 x GP09122L |
| Features | Line-interactive<br>Simulated sine-wave<br>USB / LAN protection (only available for USB models)<br>Boost and buck AVR for voltage stabilization<br>Auto restart function<br>Cold start function | | | | |

# Token Series

A line-interactive brick UPS for residential environments with multiple outlets (8) to avoid the use of extension cords.



| Model | TOKEN 600 | TOKEN 800 |
|---|---|---|
| Type | Line-interactive | |
| Power | 600VA / 360W | 800VA / 480W |
| Outlets | 8 Schuko Battery Backup & Surge Protection | |
| Battery | 1 x GP07122L | 1 x GP09122L |
| Features | Line-interactive - Simulated sine-wave<br>Automatic Voltage Regulation<br>HID USB communication port | 1Gb/s LAN surge protection<br>USB charger<br>LCD screen |

# Renton Series

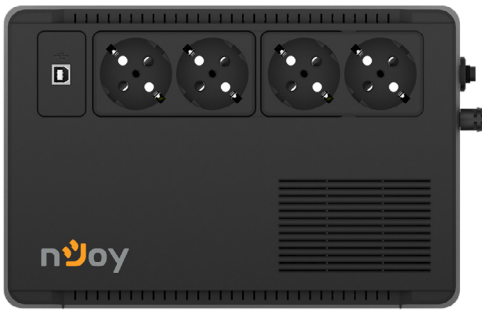
Renton is an extensive almost all-inclusive UPS solution for office and SOHO with many useful features to protect a large range of devices and gadgets.



| Model | RENTON 650 | RENTON 650 Plus |
|---|---|---|
| Type | Line-interactive | Line-interactive |
| Power | 650VA / 360W | 650VA / 360W |
| Outlets | 4 Schuko Battery Backup & Surge Protection | 4 Schuko Battery Backup & Surge Protection |
| Battery | 1 x GP05122F | 1 x GP05122F<br>(GP07122F/GP09122F) |
| Features | Line-interactive<br>Simulated sine-wave<br>AVR for voltage stabilization<br>Off mode charging<br>Cold start function<br>Compact size | Line-interactive<br>Simulated sine-wave<br>AVR for voltage stabilization<br>Off mode charging<br>Cold start function<br>USB/HID comunication(optional)<br>USB charger<br>USB fast charger 30W<br>LAN Protection |

# Soter 600

This brick-style UPS was specially build for home usage and to protect the equipment around the house. Can be used as a “battery extension”. It has a management software that can track any event or interruption, for a better user interaction.




| Model | SOTER 600 |
|---|---|
| Type | Line-interactive |
| Power | 600VA / 360W |
| Outlets | 4 Schuko Battery Backup & Surge Protection |
| Battery | 1 x GP05122F |
| Features | Line-interactive<br>Simulated sine-wave<br>AVR<br>Auto restart<br>Off mode charging<br>Cold start<br>USB for management |

# Aira Series

This UPS was built especially for central heating units to protect them from voltage fluctuations and to ensure a long operating time in case of power failure.




| Model | Aira 600 | Aira 1200 |
|---|---|---|
| Type | Line interactive | |
| Power | 600VA / 500W | 1200VA / 1000W |
| Outlets | 2 Schuko with protection | |
| Battery | The UPS doesn’t contain any internal battery, they are purchased separately<br>(car type battery or deep-cycle battery, from 40Ah to 200Ah) | |
| Features | Selectable charging current (10A or 20A)<br>Ideal for central heating units<br>Long backup time<br>Overload protection / Short circuit protection<br>Cold start function / Off mode charging<br>Automatic Voltage Regulation / Auto restart while AC is recovering | |

# BATTERIES


nJoy
GP12122F
38.54W/cell
Caution
Avoid short circuit
Avoid total discharging (deep discharge)
Do not charge in sealed container
Rechargeable after use
Must be recycled or disposed of properly
nJoy
GP1812CF
GE25012KF
725W/cell
12V; 1.65V/cell@15min
PN: BTVGCBEOGHYKFCW01B
Caution
Avoid short circuit
Avoid total discharging (deep discharge)
Do not charge in sealed container
Rechargeable after use
Must be recycled or disposed of properly
Made in China
Pb
Pb

# General Purpose




| Model | GP12122F | GP07122F | GP1812CF |
|---|---|---|---|
| Voltage | 12V | | |
| Type | Valve regulated lead–acid (VRLA), 6 cell, absorbent glass mat (AGM) - maintenance free | | |
| Power (1,65V/cell@15 min) | 44.5W/cell | 26.5W/cell | 70.2W/cell |
| Designed Floating Life | Up to 5 years (25° C) | | |
| Terminal | F2/T2 | | T3(M5) |
| Cycle use | 14.4V - 15.0V (-30mV/°C), max. Current: 3.6A | 14.4V - 15.0V (-30mV/°C), max. Current: 2.1A | 14.4V - 15.0V (-30mV/°C), max. Current: 5.4A |
| Float use | 13.5V - 13.8V (-20mV/°C) | | |
| Internal resistance | 18 mΩ | 35mΩ | 13mΩ |

# Long Life / High Rate Discharge




| Model | HR09122F | GPL09122F | GPL07122F |
|---|---|---|---|
| Voltage | 12V | | |
| Type | Valve regulated lead–acid (VRLA), 6 cell, absorbent glass mat (AGM) - maintenance free | | |
| Power (1,65V/cell@15 min) | 34.30W/cell | 29.91W/cell | 25.5W/cell |
| Designed Floating Life | Up to 9 years (25o C) | | |
| Terminal | F2 terminal -Faston Tab 250 | F2(T2) | |
| Cycle use | 14.4V - 15.0V (-30mV/°C), max. Current: 2.7A | 14.4V - 15.0V (-30mV/°C), max. Current: 2.7A | 14.4V - 15.0V (-30mV/°C), max. Current: 2.1A |
| Float use | 13.5V - 13.8V (-20mV/°C) | | |
| Internal resistance | ≤ 23mΩ | 17 mΩ | 30mΩ |

# Long Life / Deep Discharge



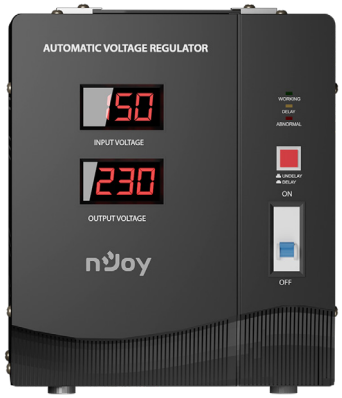

| Model | GE25012KF | GE20012KF | GE15012KF |
|---|---|---|---|
| Voltage | 12V | | |
| Type | Valve regulated lead–acid (VRLA), 6 cell, GEL - maintenance free | | |
| Power (1,65V/cell@15 min) | 725 W/cell | 595 W/cel | 455W/cel |
| Designed Floating Life | Up to 9 years (25o C) | | |
| Terminal | T11 (M8 bolt) | | |
| Cycle use | 13.5V - 13.8V max. Current: 75A | 13.5V~13.8V max. Current: 60A | 13.5V~13.8V max. Current: 45A |
| Float use | 13.5V - 13.8V (-20mV/°C) | | |
| Internal resistance | ≤ 4.0mΩ | ≤ 4.0mΩ | 4.5mΩ |

# AVR


AUTOMATIC VOLTAGE REGULATOR
140
INPUT VOLTAGE
230
OUTPUT VOLTAGE
ON
OFF
nJoy
nJoy

# Alvis Series

Alvis is a relay-type AVR with toroidal transformer and 5-pin terminal output socket used to provide the necessary voltage stability in industrial machinery, medical equipment, servers, telecommunication systems, laboratory equipment etc.




| Model | ALVIS 1000 | ALVIS 2000 | ALVIS 3000 | ALVIS 5000 |
|---|---|---|---|---|
| Type | Relay type (CPU based) | | | |
| Phase | Single Phase | | | |
| Power | 1KVA / 600W | 2KVA / 1200W | 3KVA / 1800W | 5KVA / 3000W |
| Outlets | 1 x Schuko | 2 x Schuko | 5 x Pin terminal | 5 x Pin terminal |
| Features | Microprocessor control guarantees high reliability<br>Toroidal Transformer<br>The Time delay function eliminates transients that can affect connected equipment<br>Provide surge and spike suppression | | | |

# Paladin 1000

Is an automatic voltage regulator with a wide range of input voltage. Paladin 1000 has 3 universal outlets with protections and extremely sensitive to any voltage fluctuation.




| Model | PALADIN 1000 |
|---|---|
| Type | Relay type (CPU based) |
| Phase | Single Phase |
| Power | 1KVA / 500W |
| Outlets | 3 x Schuko socket |
| Features | Under and Over voltage protection<br>Over heat protection<br>Over charge protection |

# SOLAR INVERTERS



# Astris Series On-Grid Single-Phase

nJoy Astris Series is our on grid solar inverters with cutting-edge technology, robust builds and energy efficiency. Combined with your monophase or three phase solar PV system, Astris inverters offer benefits, such as reduced energy bills, smaller carbon footprint, and increased energy independence.




| Model | Astris 3K/1P1T1 | Astris 5K/1P2T2 | Astris 8K/1P2T3 |
|---|---|---|---|
| Nominal AC Output Power | 3000W | 5000W | 8000W |
| Max. Efficiency | 97,8% | 98,2 % | 98,2 % |
| Max. PV Input Power | 4.5KW | 7.5KW | 12KW |
| Nos. of MPPT | 1 | 2 | 2 |
| String per MPPT | 1 | 2 (1/1) | 3 (2/1) |
| Max. Input Current per MPPT | 15A | 30A (2*15A) | 50A (2*15A+20A) |
| Max. Short Circuit Current per MPPT | 20A | 40A (2*20A) | 66A (2*20A+26A) |
| Cooling | Natural cooling | | |
| Ingress Protection Rating | IP65 | | |
| WiFi module | WiFi (included)<br>Optional: GPRS / RS485 /LAN | | |
| Remote configuration and upgrade | Yes | | |
| Warranty | 10 years | | |

# Astris Series On-Grid Three-Phase

nJoy Astris Series is our on grid solar inverters with cutting-edge technology, robust builds and energy efficiency. Combined with your monophase or three phase solar PV system, Astris inverters offer benefits, such as reduced energy bills, smaller carbon footprint, and increased energy independence.




| Model | Astris 6K/3P2T2 | Astris 10K/3P2T2 | Astris 20K/3P2T4 | Astris 25K/3P2T4 |
|---|---|---|---|---|
| Nominal AC Output Power | 8,000W | 10,000W | 20,000W | 25,000W |
| Max. Efficiency | 98,2 % | 98,2 % | 98% | 98.4% |
| Max. PV Input Power | 12KW | 15KW | 30KW | 37.5KW |
| Nos. of MPPT | 2 | 2 | 2 | 2 |
| String per MPPT | 2 (1/1) | 2 (1/1) | 4 (2/2) | 4 (2/2) |
| Max. Input Current per MPPT | 50A (2*15A+20A) | 2 x 15A | 2 x 30A | 2 x 30A |
| Max. Short Circuit Current per MPPT | 66A (2*20A+26A) | 2 x 20A | 2 x 40A | 2 x 40 |
| Cooling | Natural cooling | | Fan cooling | |
| Ingress Protection Rating | IP66 | | | |
| WiFi module | WiFi (included)<br>Optional: GPRS / RS485 /LAN | | | |
| Remote configuration and upgrade | Yes | | | |
| Warranty | 10 years | | | |

# **Ascet Series** Hybrid Single/Three-Phase

Located between solar modules and the power grid, the solar inverter is the central command on the photovoltaic system. By pairing it with the BASTION wall mountable battery module we created the nJoy Hybrid Inverter Back-up Power Solution.




| Model | Ascet 5K - 120/1P2T2 | Ascet 10K-50/3P2T3 |
|---|---|---|
| Phase | Single-Phase | Three-Phase |
| Nominal AC Output Power | 5000W | 10,000W |
| Max. Efficiency | 97,3% | 98,4% |
| Max. PV Input Power | 9KW | 15KW |
| Nos. of MPPT | 2 | 2 |
| String per MPPT | 2 (1/1) | 2 (1/1) |
| Max. Input Current per MPPT | 15/15A | 20/30A |
| Max. Short Circuit Current per MPPT | 20/20A | 30/40A |
| Battery Type | 48V Lithium /Lead Acid | 48V Lithium-ion / Lead-acid |
| Battery Voltage Range | 40V-60V | 150-600V |
| Max. Charge/Discharge Current | 120A / 120A | 50A/50A |
| Cooling | Natural cooling | |
| Ingress Protection Rating | IP65 | |
| WiFi module | WiFi + Smart Meter (included)<br>Optional: GPRS, 4G, LAN | |
| Remote configuration and upgrade | Yes | |
| Warranty | 10 years | |

# **Bastion** Battery Module with LiFePO4 cells

Make the most of the photovoltaic system by choosing the Bastion battery module to go with the hybrid inverter, as a safe back-up solution that will store the extra energy harvested as selected by the user.




| Model | Bastion WF5K |
|---|---|
| Nominal Voltage | 51.2V |
| Rated Capacity | 100Ah |
| Energy Stored | 5.12KWh |
| Battery Impendance | ≤ 50 mΩ |
| Comunication | RS232, RS485, CAN |
| Life Cycle | 6000 times @ 80% DOD & 25°C |
| Cooling | Natural convection |

# RAZE GE200

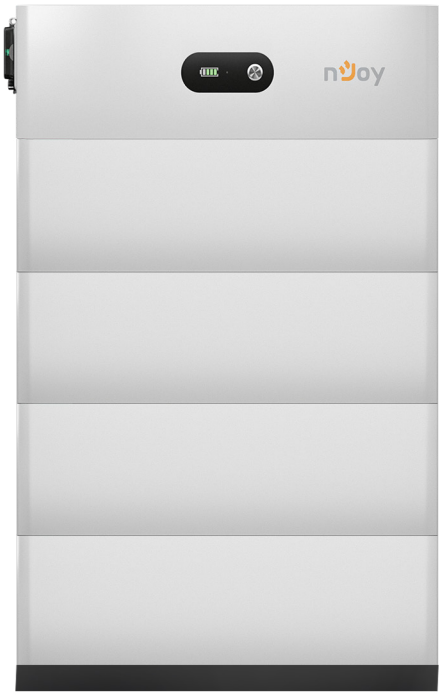
Excellent charging and re-charging / Long Life & low self-discharge design / Solar & wind energy storage




| Model | Raze GE200 |
|---|---|
| Voltage | 12V |
| Power (1.65V/cell@15min) | 560 W/cell |
| Type | Valve regulated lead–acid (VRLA), 6 cell, GEL - maintenance free |
| Designed Floating Life | Up to 9 years (25° C) |
| Cycle use | 13.5V~13.8V max. Current: 60A |
| Discharging Current | Max. 100A |
| Discharging Power | Max. 1200W |

# Powerhill

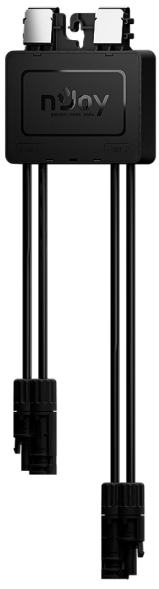
Powerhill is a high-voltage energy storage system based on stackable LiFePO4 battery 2.5KWh modules, allowing the use of 3 pieces (7.5KWh) to 8 pieces (20KWh). It has an integrated heater which will enable battery charging and discharging even in low temperatures.




| Model | Powerhill PDU & battery modules |
|---|---|
| Nominal Voltage | 48V |
| Max.Current: | 35A |
| BMS | Included |
| Comunication | RS232, RS485, CAN |
| Protection Rating | P65 |
| Cooling | Natural convection |
| **Battery Module** | |
| Cell Technology | Prismatic LiFePO4t |
| Life Cycle | > 6000 cycles (25°C , 0.5C, 80% DOD) |
| Max Charge/ Discharge Current | 35A |
| Operating Voltage Range | 2.9V ~3.6V / cell |
| Operating Temperature Range | Charge: 0°C~+55°C,<br>Discharge: -20°C~+55°C<br>Heater included for low temperature operations |

# SolarIQ Optimizer

nJoy SolarIQ regulates each panel's voltage to optimize current. As a result, the entire installation generates more energy. SolarIQ works with any inverter without the need to install it on all panels. It is the perfect solution for systems partially exposed to shading.



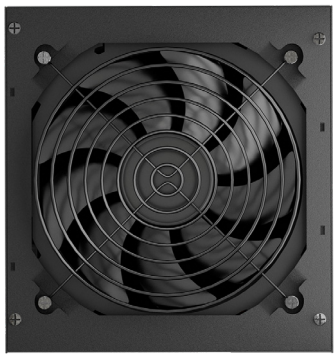

| | |
|---|---|
| Maximum Input Voltage | 55V |
| MPPT Operating Range | 8V ~ 55V |
| Maximum Input Current | 20A |
| Maximum Rated Input DC Power | 700W |
| Maximum Output Voltage | 42V |
| MPPT Operating Range | 8~42VDC |
| Maximum Output Current | 20A |
| Overcurrent Protection | 25A |
| Maximum Efficiency | 99.5% |
| DC Short-Circuit Proteciton | Yes |
| Bypass Diode Voltage | PV Voltage < 8V (bypass activates) |
| DC Input Connector | MC4 |

# ATX Power Supply Range



# Alpha +

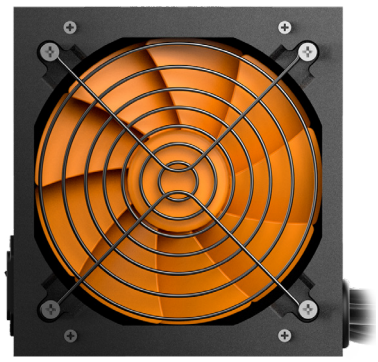
Your story can be exceptionally good if it's based on the best premises. In a world full of distractions, efficiency and high performance should prevail even more when it comes to protecting the expensive set-ups, like gaming, video editing computers or even servers.



| Model | Alpha+ 750 | Alpha+ 850 | Alpha+ 1000 |
|---|---|---|---|
| Power Factor Correction | Active PFC | | |
| Input Voltage | 100-240 Vac | | |
| Input Frequency | 50-60 Hz | | |
| Modular | Full-modular | | |
| Capacitors | High quality 105 oC | | |
| Protection | OVP / OCP / OTP / UVP / SCP / OPP | | |
| Thermal Control | Intelligent auto-thermal fan control | | |
| Efficiency | Meets 80+ Gold 230 V EU Standard<br>90% / 92% / 89%<br>(20% / 50% / 100% load) Efficiency | | |

# Nexo

Nexo is a very efficient, high-end power supply for gaming use crafted with high-quality internal construction that ensures durability and stability, even under demanding conditions.



| Model | Nexo 650 | Nexo 750 | Nexo 850 |
|---|---|---|---|
| Power Factor Correction | Active PFC | | |
| Input Voltage | 230V | | |
| Input Frequency | 47 – 63Hz | | |
| Modular | No | | |
| Capacitors | High quality 105C | | |
| Protection | OVP / OPP / OCP / SCP | | |
| Thermal Control | Intelligent auto-thermal fan control | | |
| Efficiency | Meets 80+ Gold 230 V EU version<br>90% / 92% / 89%<br>(20% / 50% / 100% load) | | |

# Titan +

Created to withstand every efficiency test for the 80Plus Bronze at 230V, Titan+ Series is a collection of powerful power supplies with high quality protection systems in place.




| Model | Titan+ 550 | Titan+ 650 | Titan+ 750 |
|---|---|---|---|
| Power Factor Correction | Active PFC | | |
| Input Voltage | 230V | | |
| Input Frequency | 47 – 63Hz | | |
| Modular | No | | |
| Capacitors | High quality 105C | | |
| Protection | OVP / OPP / OCP / SCP | | |
| Thermal Control | Intelligent auto-thermal fan control | | |
| Efficiency | Meets 80+ Bronze 230 V EU version<br>85% / 88% / 85%<br>(20% / 50% / 100% load) | | |

# Synergy

Synergy Series (bulk) is our new nJoy PSU line designed for system integration, intended to power more tamed PCs builds.



| Model | Synergy 550 | Synergy 650 | Synergy 750 |
|---|---|---|---|
| Power Factor Correction | Active PFC | | |
| Input Voltage | 230V | | |
| Input Frequency | 50 Hz | | |
| Modular | No | | |
| Capacitors | High quality 105C | | |
| Protection | OVP / OPP / OCP / SCP | | |
| Thermal Control | Intelligent auto-thermal fan control | | |
| Efficiency | Meets 80+ White 230 V EU Standard<br>82% / 85% / 82%<br>(20% / 50% / 100% load) | | |

# For PC Integrators & Builders

From sleek aesthetics and high performance, our PC cases offer the perfect foundation for every build. With detailed specifications, compatibility assurance, and innovative features, we empower integrators to create systems that stand out.



| Model | AURA |
|---|---|
| Type | Middle tower ATX |
| Supported Motherboards | ATX & Micro ATX |
| USB & Sound Ports | 1 x USB 3.1 Type C + 2 x USB 3.0 Type A + 1 x HD Audio |
| Fans | Left pannel: 120mm ARGB fan x 3 (included)<br>Rear: 120mm ARGB fan x 1 (included)<br>Bottom: 120mm ARGB fan x 3 (included) |
| Features | 3pin 5V ARGB header connector for RGB motherboard control (Gigabyte adapter connector included)<br>Manage brightness and ARGB colour effects by remote<br>Full black chassis with ARGB fans<br>Supports 120/240/360mm liquid cooling system on top |



| Model | FORT |
|---|---|
| Type | Middle tower ATX |
| Supported Motherboards | ATX & Micro ATX |
| USB & Sound Ports | 2 x USB 3.0 + 1 x USB 2.0 + HD Audio |
| Fans | Front: 140mm LED fan x 1 (included)<br>Rear: 120mm LED fan x 1 (included)<br>Top: 120mm LED fan x 2 (optional) |
| Features | Compatible with 3-Pin 5V ARGB connector<br>Addressable RGB Strip |



| Model | ANIL |
|---|---|
| Type | Middle tower ATX |
| Supported Motherboards | ATX/M-ATX |
| USB & Sound Ports | USB 2.0 x 2<br>USB 3.0 x 1<br>Microphone & HD Audio |
| Fans | Rear: 120mm LED fan x 1 (included)<br>Top: 120mm LED fan x 2 (optional) |
| Features | RGB connector included<br>RGB strip color/rainbow selectable<br>LED button FAN RGB colour management<br>Full black with RGB fan |

For more details please visit
www.njoy.global


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