



**NRG VALUENET PLUS
60-120kW**

EFFICIENT AND RELIABLE POWER PROTECTION
FOR IT EQUIPMENT IN SMALL AND MEDIUM SIZED ORGANIZATIONS

NRG
VALUE NET *plus*

Innovative technology delivering unmatched power performance

The latest generation of Valuenet Plus continues the tradition of applying state of the art technology to UPS products, and delivering the best combination of energy efficiency and overall power performance.

Offering maximum power protection, Valuenet Plus has a small footprint and uses less energy than comparable products - thus delivering significant cost savings for the user. Its exceptional design meets all the modern requirements involved in building and operating energy-efficient and environmentally friendly centers. NRG Valuenet plus employs transformer-less double conversion UPS topology and is available in ratings from 60 to 120kW.

HIGHLIGHTS

- Reliable double conversion UPS ensures the critical load is never affected by utility disturbances.
- High, 96% efficiency in double conversion mode reduces running costs without compromising reliability.
- Space saving mechanical design has a footprint of only 1/3 m² and front-to-top airflow allows installation against the wall.
- Front service access reduces time needed for maintenance.
- Up to 10 UPSs in parallel can give additional capacity and/or redundancy.
- Integrated system – this UPS has a maintenance bypass switch, single or dual input feed configurations as well as other features, integrated into the system.
- Highly flexible battery configuration supports usage of 42-48 battery blocks in a string. This allows optimizing the battery and reduces the need to oversize.

Rating
60 to 120 kW



Up to 10 UPSs in parallel
can give additional capacity and/or redundancy

Compact size
footprint of only 0.30 m²

Space-saving and simple to service

Space-saving mechanical design results in a footprint of only 0.30 m² and front-to-top airflow allows installation directly against a wall. For service, only frontal access is needed, which means that the total footprint with maintenance clearances is minimized and overall time required for service and maintenance is shortened.

APPLICATIONS

- Small- to medium-sized data centers
- Office and building power protection
- Process automation
- Other critical processes

The best combination of energy efficiency, reliability and low cost of ownership

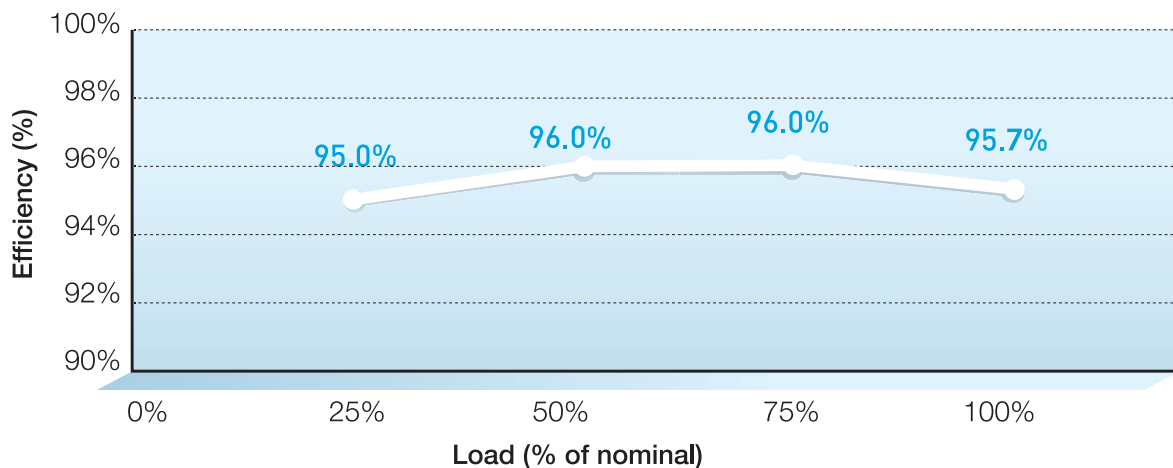
Perfectly reliable

NRG VALUENET plus has true online double conversion technology that continuously conditions incoming power to eliminate spikes, swells, sags, noise and harmonics, ensuring that the critical load is at no point affected by any utility disturbances.

Highly efficient

Top-of-market 96 percent efficiency in double conversion mode reduces running costs without compromising reliability. This UPS has a very flat efficiency curve so high efficiency is reached at low load levels.

96% efficiency
in secure double conversion mode



Well optimized for modern loads

Battery runtime can be optimized to match well the exact needs. The UPS supports usage of 42-48 batteries in a single string, which minimizes the total cost of installation as optimal configuration can be used and so there is no need to oversize the battery.

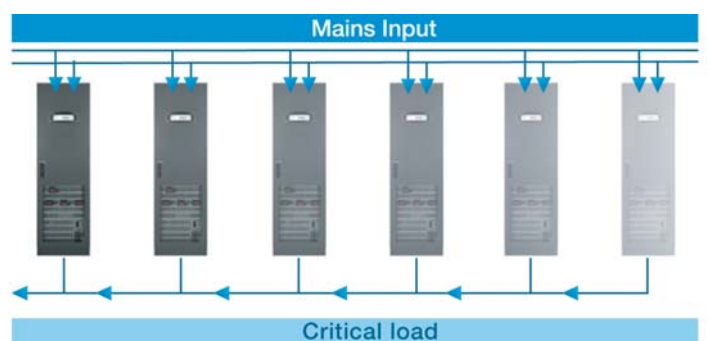
1.0 rated output power factor means that each and every Watt of power is REAL power that is available for use. This helps with optimizing the complete electrical infrastructure in terms of switchgears and cabling, both upstream and downstream from the UPS.

Easily scalable for capacity and redundancy

Up to 10 units can be configured in parallel to provide over a megawatt of UPS power or redundant backup. This scalability means the UPS system capacity can be sized to match the load requirements, with the possibility to add incremental capacity later, when power needs change. The resulting savings in power usage over the service life of the UPS are substantial.

Mains-friendly with low input harmonics and advanced PFC

This UPS's front-end rectifier actively controls the input power factor and has extremely low content of input current harmonics. This means that no additional filters are required upstream and the UPS does not cause any disturbance to other equipment connected to the same input source. Unity input power factor and low harmonic distortion allows upstream cabling, switchgear and generator sizes to be optimized, and reduces heating of input transformers.



As your power requirements grow, the UPS system grows with them – thanks to its flexible scalability – even in the most confined spaces.

Technical specification

| GENERAL DATA | 60kW | 80kW | 100kW | 120kW |
|------------------------|-------------------------------|------|-------|-------|
| Output power max. | 60kW | 80kW | 100kW | 120kW |
| Output power factor | 1.0 | | | |
| Topology | True online double conversion | | | |
| Parallel configuration | Up to 10 units | | | |
| UPS type | Standalone | | | |
| Cable entry | Front access | | | |

| INPUT | |
|--|--|
| Nominal input voltage | 3 × 380 / 220 VAC+ N, 3 × 400 / 230 VAC+ N, 3 × 415 / 240 VAC+ N |
| Voltage tolerance (Ref. to 3 × 400 / 230 V) | For loads <100% (-10%, +15%), <80% (-20%, +15%), <60% (-30%, +15%) |
| Input distortion THDi | ≤4% at 100% |
| Frequency | 35-70 Hz |
| Power factor | 0.99 at 100% load |

| OUTPUT | |
|----------------------|--|
| Rated output voltage | 3 × 380 / 220 VAC+ N, 3 × 400 / 230 VAC+ N, 3 × 415 / 240 VAC+ N |
| Voltage distortion | <2% |
| Frequency | 50 or 60Hz |
| Overload capability | 0.5 min. @ 150% load; 5min. @ 125% load; 20 min. @ 110% load |
| Unbalanced load | 100% possible |

| EFFICIENCY | |
|---------------------------|-----------|
| Double conversion | Up to 96% |
| In eco-mode configuration | ≥99% |

| ENVIRONMENT | |
|------------------------|--------------------------|
| Storage temperature | -25 - 70 °C |
| Operating temperature | 0 - 40 °C |
| Altitude configuration | 1000 m without de-rating |

| BATTERY | |
|--------------|---|
| Battery type | Sealed, lead-acid, maintenance-free or NiCd |

| COMMUNICATIONS | |
|------------------|--|
| User interface | Optional |
| Customer inputs | Remote shutdown, genset interface |
| Customer outputs | Potential-free contacts (optional), USB (optional) |

| STANDARDS | |
|------------------------------------|-------------------------------|
| Safety | IEC / EN 62040-1 |
| Electromagnetic compatibility(EMC) | IEC / EN 62040-2 |
| Performance | IEC / EN 62040-3 |
| Product certification | CE |
| Protection rating | IP 20 |
| Manufacturing | ISO 9001:2008, ISO 14001:2004 |

| WEIGHT, DIMENSIONS | | | | |
|----------------------------|--|--------|--------|--------|
| Weight (without batteries) | 198 kg | 206 kg | 228 kg | 230 kg |
| Dimensions W × H × D (mm) | 615 × 1954 × 480 or 615 × 1978 × 480 (with feet) | | | |