High quality voltage
sinusoidal output voltage
whatever the load supplied

VFI technology

On-Line double conversion
(Voltage and Frequency Independent VFI)

- The most effective technology for protecting data in the event of a power cut or low quality power supply.

The rectifier:

- receives the power on the network,
- transforms the alternating current into direct current,
- supplies the UPS inverter.

The battery:

- stores electrical energy,
- is kept fully charged by the charger,
- automatically supplies the UPS inverter when the supply network is unavailable.

The inverter:

- is supplied by the rectifier or the battery,
- transforms direct current into alternating current,
- permanently supplies applications with high quality voltage with a stable frequency, independent of the specifications and defaults of the supply network.

The bypass:

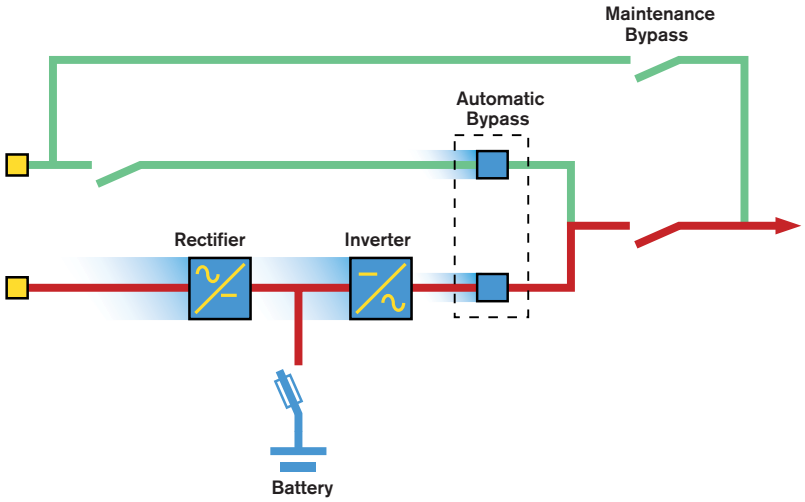
- supplies applications directly from the network when the inverter output voltage is out of tolerances,
- the maintenance bypass function allows applications to be supplied during repair operations.

Sinusoidal energy

The technology used guarantees:

- perfectly sinusoidal voltage: THDV < 2% with linear loads and < 3% with non-linear loads,
- precise output voltage even when the three-phase load is completely unbalanced between loads,
- an immediate response to major variations in load with no deviations in output voltage (up to ± 2% in less than 5 minutes).

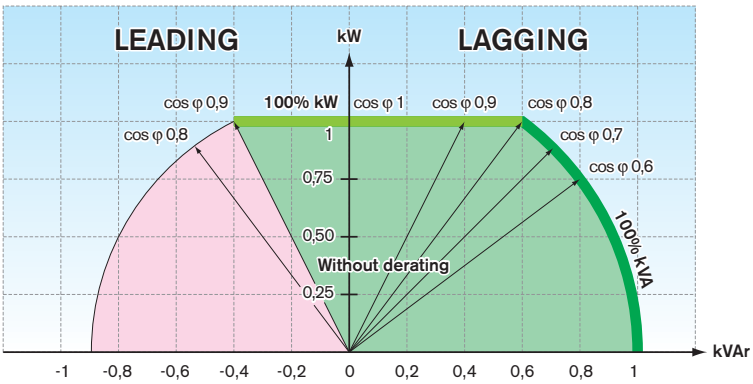
These features reduce the effect on the rate of distortion generated downstream by non-linear loads. The equipment supplied works under the best possible conditions, extending their service life and improving their availability over time.



DEPYS 133 A GB

Whatever the load

- The Uninterruptible Power System supplies from the ***MASTERYS*** and ***DELPHYS*** range guarantee a very high quality power supply using the latest digital control technology.
- The modulation function optimises the operation of the UPS, it guarantees a quick reaction in real time.
- The components and power bridges (developed with the latest generation of high performance IGBTs) are configured to supply power without derating:
  - non linear loads with a crest factor up to 3.
  - loads with a lagging power factor and up to 0,9 leading.



DEPYS 091 A GB