

# Improve Your Data Centre Efficiencies

Rising energy costs and an increase in demand and density for corporate computing capacity have stretched today's power systems to capacity. Industry and governmental guidelines are requiring data centre operators to improve the efficiencies of their facilities.

### Three-Phase, High Efficiency UPS Systems

Eaton's Three-Phase UPS products isolate critical loads from power disturbances with the highest level of protection possible using proven double conversion technology, and truly redundant design.

### Eaton's Three-Phase UPS systems boast:

- Highest power performance
- Highest efficiency, lowest ITHD
- Highest reliability & availability
- Inherent redundancy
- Concurrent maintenance
- Flexible, scalable, upgradeable
- Highest power density
- Lowest weight

As a leader in developing and providing sustainable solutions, the Three-Phase product line provides maximum savings through unrivaled power performance in efficiency, input current harmonic distortion (ITHD), and power factor. In addition, transformer-less design reduces consumed raw materials. The 9395 offers the smallest footprint in its class, resulting in 50 to 60 percent less floor space and consequently lower freight costs than competitive units.

#### OPERATING COST SAVINGS

Yearly energy savings	EUR 16 413
Yearly cooling savings	EUR 11 489
<b>Total yearly savings per 9395 unit:</b>	
<b>EUR 27 902</b>	



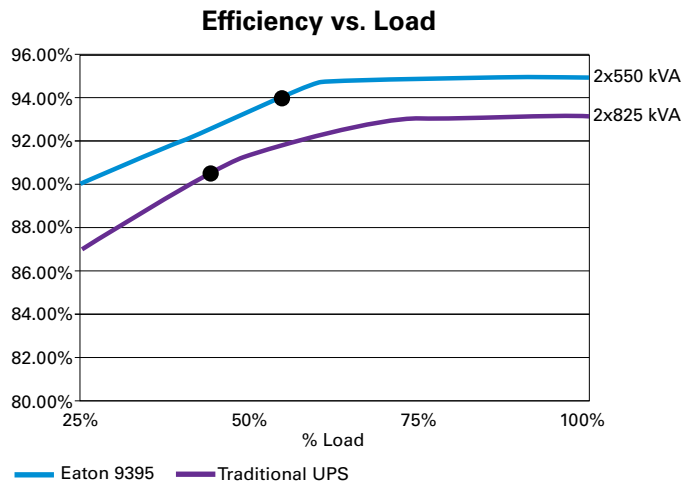
Eaton Three-Phase UPSs



Powering Business Worldwide

**Data centre savings achieved with Eaton 9395 550 kVA**

Load rating (VA) =	550 000
Load Power Factor =	0,9
Unit Watts =	495 000
Energy cost per kWh* =	0,09 EUR
Competitive product efficiency from graph =	90,5%
9395 UPS efficiency from graph =	94,0%
Loss in Watts with competitive product =	51 961
Loss in Watts with 9395 UPS =	31 595
Extra energy used to operate competitive product =	20 365
Loss in BTU/hr with competitive product =	177 299
Loss in BTU/hr with 9395 UPS =	107 809
Extra BTU/hr used to operate competitive product =	69 490
Daily energy savings using 9395 UPS =	44,97 EUR/day
Yearly energy savings using 9395 UPS =	16 413 EUR/year
Cooling efficiency ratio =	70%
Daily cooling savings using 9395 UPS =	31,48 EUR/day
Yearly cooling savings using 9395 UPS =	11 489 EUR/year
<b>Total yearly combined savings per 9395-550 kVA =</b>	<b>27 902 EUR</b>
Quantity of Modules =	4
<b>Total yearly savings using 9395-550 kVA =</b>	<b>111 608 EUR</b>
Daily CO2 metric tons savings using 9395- 550kVA (kWH=0.43 CO2 kg)	0,21
<b>Yearly CO2 tons savings using 9395- 550kVA</b>	<b>76,7</b>
Quantity of Modules =	4
<b>Total yearly combined CO2 tons savings using 9395- 550 kVA</b>	<b>307</b>



9395 UPS 550 kVA