



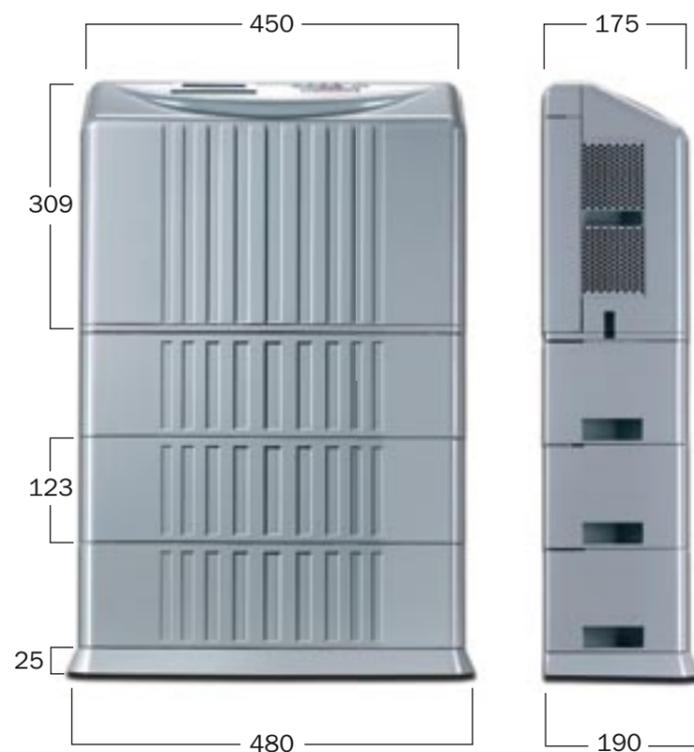
MetaSystem
ON-LINE
SINCE 1975

UPS
MetaSystem

DHEA

POWER & SECURITY





3 OUTPUTS

The 1500/2000/3000 versions are complete with 3 time-phased outputs when operating through the inverter. These cut out after a pre-set time, so you can safeguard the power supply to more important loads based on how much back up time you have left.

DISPLAY (1500 - 2000 - 3000 version)

The user-friendly LCD display fitted into the front panel makes monitoring and programming extremely easy and immediate, even for the less expert among us. In the DHEA's setup, you can set its operating parameters in order to optimise its application. You can also set a schedule for switching it on and off and programme in battery tests.



MetaSystem proudly presents the DHEA range of UPS: innovative, on line double conversion UPS for use in the home and by retailers, with overall loads of up to 3 kVA.

DHEA UPS are made up of an inverter section and battery modules (battery pack) with a stackable design and plug and play connectivity. Their special lead and gel batteries are contained inside battery packs and are hermetically sealed so they do not emit any gas whatsoever. As a result, they can be used in the home without any need for maintenance.

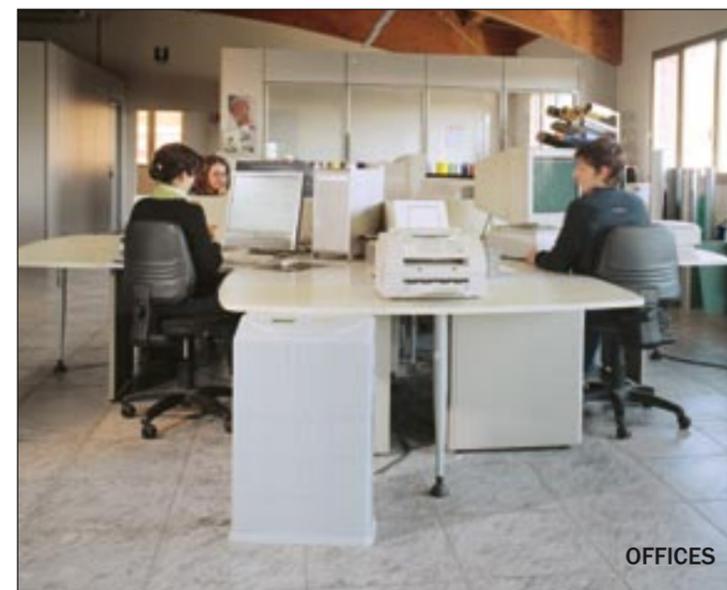
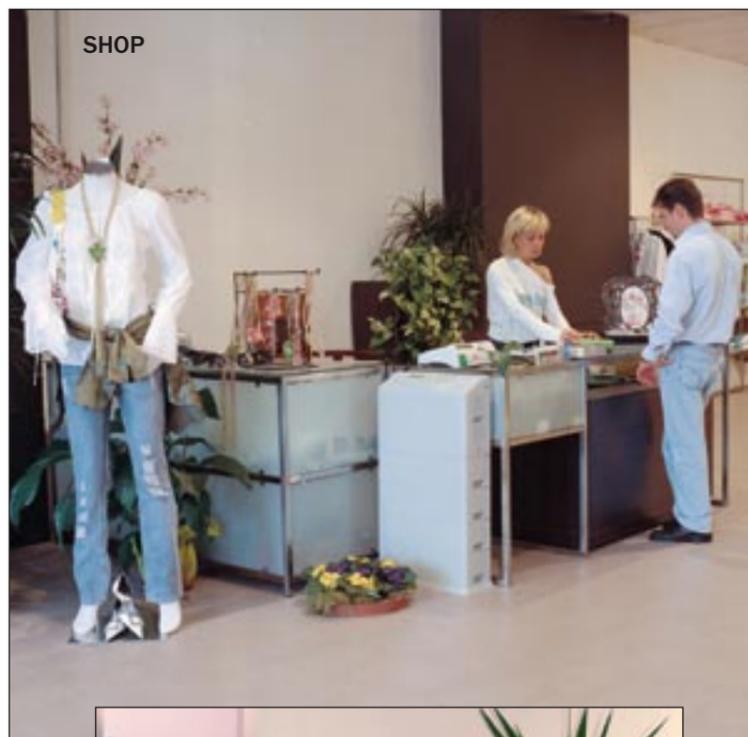
They are available in versions supplying 1000/1500/2000 or 3000 VA of power, whereas their autonomy configuration can be determined according to requirements, even with very long back up times, thanks to their system of stackable battery packs which also gives them a very small footprint. This system means siting

the UPS is not a problem should space be an issue (e.g. behind a door), however their very pleasant design makes them attractive if they are in full view. Designed with on line double conversion technology, DHEA UPS supply stabilised and perfectly sinusoidal output voltage, protecting appliances that are susceptible to interference and sudden shifts in the mains power supply. They are also fitted with an input power factor corrector (PFC) and therefore act as a phase advancer, with the resulting benefits in terms of consumption for both the consumer and the electricity supplier. The stackable battery packs offer you the option of long back up times while taking up a minimum of space. With a DHEA UPS, you can beat the growing phenomenon of power black outs, causing problems not just for private homes but also for retailers, who need a long back up time rather than high levels of power.



ON LINE

On Line double conversion technology lets you solve any power supply hitches caused by shifts in the input voltage or frequency. DHEA's have a special input stage that enables them to be used with a wide range of power supply voltages, avoiding frequent switchovers to battery power. They can also be used with gen sets and as frequency converters.



There really is a whole host of possible applications for a DHEA UPS. Designed to support medium power loads and provided with 3 output lines - which can be programmed separately for autonomy management based on a user-designated hierarchy - the idea was for these UPS to offer the long autonomies demanded by retailers, homes and multi-storey buildings, where stairwell lighting, audio and video intercom systems and electric access has to be guaranteed at all times.

Repeated power black outs are a considerable headache for re-

tailers, who often are not able to operate their cash register and complete a sale, or find themselves in the dark when the lights go off and locked in because the sliding doors won't work. All of these events disturb normal business and are detrimental to the services offered; they also have a financial impact and damage the retailer's image.

A DHEA UPS is the perfect solution! A DHEA UPS can provide long autonomies thanks to its streamlined and very attractive modular battery pack system, meeting the specific demands of

the user. They are also readily used in multi-storey buildings, providing uninterrupted power for the lighting on the stairs, for the audio and video intercom systems and for automated access. Professionals routinely work with appliances that are sensitive to the "quality" of the mains electricity they are powered by and may fail to work correctly if there is a break in power or sags or surges in the mains voltage. DHEA UPS are on line double conversion, so they are able to correct problems with the mains power, offering perfect protection for all the loads connected up to it. There are

many people who think UPS are only for the professionals: in truth, domestic applications also need support in order to safeguard their continuity of power just like professional ones, because homeowners are increasingly adopting electronic appliances in order to automate their home and enhance their comfort. DHEA UPS were designed with these demands in mind, guaranteeing long autonomies with a minimum impact on space. Automatic gates, lighting, surfing the net, audio and video systems... DHEA can take care of all of these, discreetly and "continuously".



1000 VERSION



1500/2000/3000 VERSIONS

Technical specifications	Dhea 1000	Dhea 1500	Dhea 2000	Dhea 3000
Technology	On Line double conversion			
Wave form	sinusoidal			
Nominal power	1000 VA	1500 VA	2000 VA	3000 VA
Active power	700 W	1050 W	1400 W	2100 W
Nominal input voltage	230 V			
Input voltage range	184 V ÷ 265 V at 100% load			
Minimum operating voltage on mains power	184V with nominal load / 100V at 50% nominal load			
Input frequency	50/60 Hz ± 2% (± 14% with extended range)			
Input power factor	> 0.99 at 80% nominal load			
Output voltage	230 V ± 1%			
Output voltage THD	< 1%			
Output frequency (operating on battery power)	50/60 Hz ± 1%			
Batteries	2 x 36 V 7.2 Ah in stackable Battery Packs			
Acoustic noise at 1 m	< 40 dBA			
Net weight	inverter 4 Kg		battery pack 16 Kg	
Dimensions (wxhxd) in mm	inverter 450X309X170		battery pack 450X125X170	
Standards	EN 62040 - 1-1, EN 50091-2, EN 62040-3			
Connections	1 RS 232 + 3 contact outputs (2 pin) + EPO			
Output sockets	1 line	3 lines (including 2 time-phased)		



LONG AUTONOMIES

Stacking the battery packs is simple and fast, making it possible to easily increase back up time: forget about the concept of limiting jobs to the time needed simply to save data and close down any applications that are running (typical with computers). Now we can talk about long back up times, even in terms of hours, as DHEA UPS can easily meet the needs for a stable and continuous source of electricity with applications from all areas of life, for use at home, in professional studios and offices, shops and small businesses.

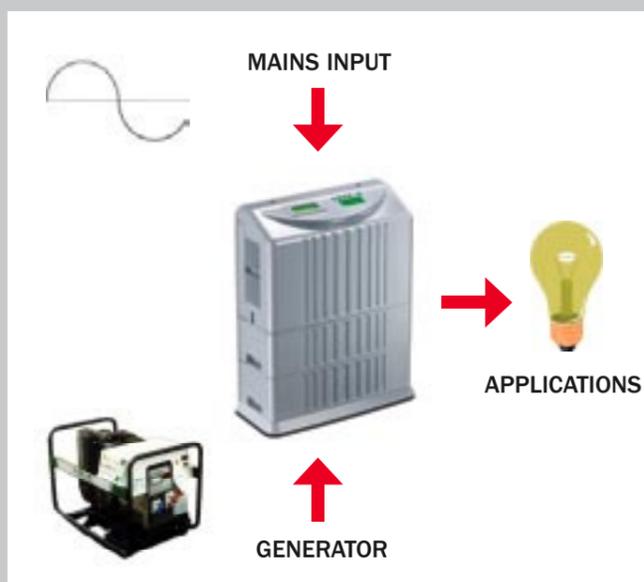
n. battery pack	Autonomy with 100% load			
	1000 VA	1500 VA	2000 VA	3000 VA
1	20'	15'	10'	—
2	48'	32'	24'	16'
3	1 h 20'	50'	40'	25'
4	2 h	1 h 15'	1 h	38'
5	2 h 40'	1 h 35'	1 h 20'	48'
6	3 h 20'	2 h	1 h 40'	1 h
7	4 h	2 h 30'	2 h	1 h 15'
8	5 h	3 h	2 h 30'	1 h 30'
9	6 h	3 h 30'	3 h	1 h 45'
10	7 h	4 h	3 h 30'	2 h

USE WITH A GEN-SET

DHEA's design also caters for connecting up its electronic section to a gen set in order to considerably increase the system's autonomy in case of very lengthy power black outs.

Gen sets, especially low power products, typically provide power with considerable voltage fluctuation together with characteristic frequency instability.

The DHEA UPS's input stage was also designed to handle this type of power, and supplies output voltage with perfectly stable amplitude and frequency.



PLUG & PLAY BATTERY PACK CONNECTIONS

The battery pack contains all its batteries and relative connections. Connecting up to the electronic unit is easy and safe, so that even the less expert among us can transport and install all of the various parts in a system with total confidence and ease. The inverter's rated supply voltage is 72 V but this is only present when the module has been connected up. During transport, there's only 36 V at the battery pack terminals, safeguarding maximum safety and compliance with current standards. An unlimited number of batteries can be connected up to the electronic unit so you can get the exact back up time you need.



Uninterruptible Power Supplies

Unterbrechungsfreie Stromversorgungen

Sistemas de alimentación ininterrumpida

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