

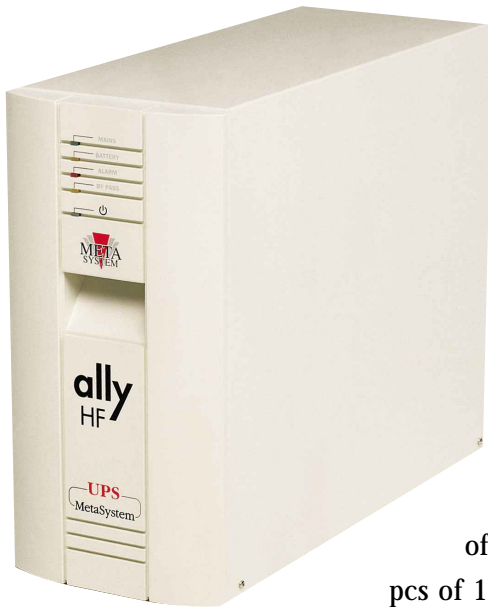
UPS

MetaSystem

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GB



On line dual conversion

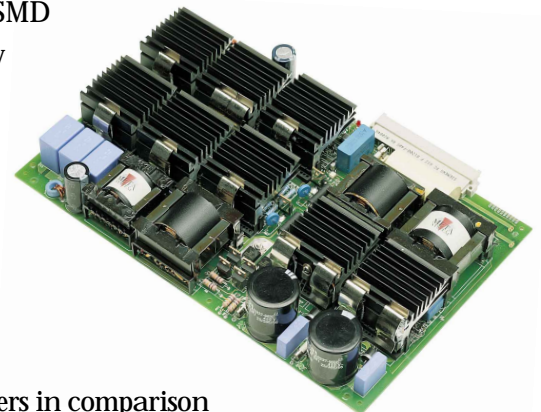
The *Ally* range of uninterruptible power supplies are on line dual conversion and as such offer absolutely zero intervention time and a perfectly sinusoidal output wave form, independently of the type and amount of load, or should it be operating on mains or battery power.

Three power ratings with expandable autonomy

The *Ally* models are available in three power ratings of 800, 1000 and 1250 nominal VA and each contains 3 pcs of 12 V 7 Ah batteries that guarantee standard autonomy suitable for the loads typical for this power bracket. Should a particular application need extended autonomy, purpose built battery cabinets can be combined with the *Ally* models in order to obtain the required operating time with battery power (must be requested at time of purchase).

Hybrid board and optimisation

The innovation featured by the *Ally* models is their construction with a single hybrid electronic circuit board, that is partially manufactured with SMD technology and partially with traditional assembly of the power components. This innovation makes it possible to optimise production processes and to build an on line dual conversion UPS with a top class performance that can be placed in the segment with line interactive UPS.



On line vs Line interactive

The advantages that an on line dual conversion UPS offers in comparison to a line interactive product are considerable: total continuity, identical wave form both in mains and battery power, suppression of any kind of problem that the power supply may present, both in terms of the amplitude and the frequency of the voltage. The strength of dual conversion lays precisely with the fact that it recreates the output voltage all over again, instant by instant, starting not with the mains power but with a continuous voltage that is balanced and constant, obtained either from the batteries or from the conversion of the mains voltage into continuous voltage. When the application is critical or the equipment is sensitive, these features really make a difference.

Technical Specifications

	Ally HF 800	Ally HF 1000	Ally HF 1250
Nominal power	800 VA	1.000 VA	1.250 VA
Active power	560 W	700 W	875 W
Power with switching load	1.120 VA	1.400 VA	1.750 VA
Technology	on line dual conversion		
Input volatge	184 ÷ 264 V		
Input frequency (Hz)	50/60 Hz ± 2%		
Input power factor	>0,99 @ 80% of the load		
Output voltage	230 V		
Distortion of output voltage	< 1%		
Output frequency	50 or 60 Hz		
Wave form in battery mode	pure sinusoidal		
Acoustic noise at 1 m	< 42 dBA		
Climatic conditions	0° ÷ 40°		
Cooling system	forced		
Weight (Kg)	12	12	12
Size (l x h x d) mm.	160 x 319 x 402		
Battery voltage (V)	36		
Type of batteries	sealed lead acid maintenance free		
Number of batteries	3		
Electrical specifications	12 V 7 Ah		
Autonomy with 50% load	27	22	16
Autonomy with 80% load	15	10	8
Communications port	RS232		
Expansion of autonomy	Optional		
Output connections	1 IEC (surge protected) + 1 power strip		
Shutdown Software with local diagnostic (Windows)	free download from website www.metasystem.it		
Shutdown software for networks	Optional for all Operating Systems		
Reference regulations	EN 50091-1-1, EN 50091-2		

Technical characteristics	Ally HF 800	Ally HF 1000	Ally HF 1250	Ally HF 1600	Ally HF 2000	Ally HF 2500
Technology						
Technology	PWM high frequency both for input and output stage, On Line Dual Conversion					
Weight	12 kg			23 kg		
Dimensions W × H × D (mm)	160 × 319 × 402			160 × 450 × 402		
Output Power						
Nominal Apparent Power	800 VA	1.000 VA	1.250 VA	1.600 VA	2.000 VA	2.500 VA
Active Power	560 W	700 W	875 W	1120 W	1400 W	1750 W
Electrical Input Specifications						
Nominal Input Voltage	230 V					
Input Voltage Range	from 184 V to 264 V at 100% rated load (from 110V to 264V at 50% rated load)					
Input Frequency	50 Hz or 60 Hz ± 2% automatic or selectable by the operator					
Input Power Factor	> 0.99 at 80% rated load					
Electrical Output Specifications						
Nominal Output Range	230V ±1%					
Output Frequency (mains)	50Hz or 60 Hz synchronised					
Output Frequency (battery)	50Hz or 60 Hz ±1%					
THD on linear load	< 0.5% on linear load; < 1% on non-linear load: P.F=0.7					
Load Power Factor range	0.7 to 1					
Environmental Specifications						
Operating temperature range	From 0°C to 40°C					
Humidity	From 20% to 80% non condensing					
Grade of protection (IEC529)	IP21					
Acoustic Noise at 1 m	< 42 dBA					
Batteries	Three 12V-7Ah maintenance-free sealed lead acid batteries			Six 12V-7Ah maintenance-free sealed lead acid batteries		
Interface	RS 232					
Standards Compliance						
Safety	Complies with EN 50091-1-1					
EMC	Complies with EN 50091-2					
Features	Complies with EN 50091-3					

Uninterruptible Power Supplies

Unterbrechungsfreien Stromversorgungen

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