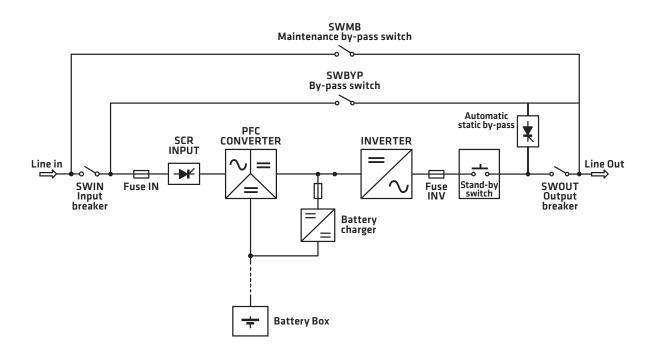




Safepower-Evo-HF

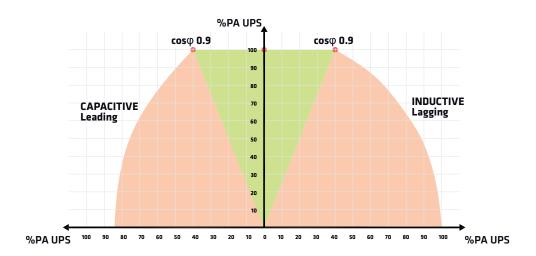
## The product

Safepower-Evo-HF is the new UPS series by SIEL. It comes in models from 10 to 120 kVA, with On Line double conversion technology in accordance with VFI-SS-111 classification, as defined by IEC EN 62040-3 norms. Safepower-Evo-HF means you can work in ECO-MODE. In this operational mode the charge is supplied by the mains power supply, the UPS batteries are kept charged, if at any time there is a deviation from the mains power supply's established parameters, the UPS automatically intervenes to supply the charge by battery.



With the SMART ACTIVE mode, the UPS takes control of the ON LINE and ECO modes by analyzing the data received regarding the quality of the power supply. The high yield (up to 96.5% for sizes up to 40kVA and over 95% for sizes between 60 and 120kVA) along with characterization at  $Cos\phi$  0,9 allows for a more flexible sizing of the UPS that ensures high active power levels for the selected appliances. Equipped with three level PWM, Safepower –Evo-HF presents sinusoidal absorption, which maintains low harmonic content of the current regenerated to the system and thus contains sizing of an eventual backup supply.

The option of connecting up to 6 paralled UPS', combined with a wide choice of links for the multiplatform communication system and the integration of additional UPS' on a single bus, makes monitoring of the system extremely simple and effective.



The machine can run on active power equivalent to nominal power for all values of  $Cos\phi$ , from 0.9 capacitive to 0.9 inductive.



# Technical Specifications **Safepower-Evo-HF**

10/15/20/30/40/60/80/100/120 kVA three phase input / three phase output

MECHANICAL CHARACTERISTICS	UPS Power (kVA)								
	10	15	20	30	40	60	80	100	120
Dimensions (mm)									
Width Depth Height			440 850 1320				550 850 1600		750 855 1900
Max. weight with internal batteries (Kg)	180Kg 305Kg	190Kg 315Kg	195Kg 320Kg	335Kg	345Kg	190	200	370	380
Degree of protection of housing					IP20				

ELECTRICAL DATA	UPS Power (kVA)									
	10	15	20	30	40	60	80	100	120	
INPUT										
Harmonic Distortion (THDi) and Power Factor at full charge	THDi ≤ 3 % , 0,99 Pf					THDi 2 0,9	2,5 % , 9 Pf	THDi 3 %	, 0,99 Pf	

ELECTRICAL DATA	UPS Power (kVA)									
	10	15	20	30	40	60	80	100	120	
INTERMEDIATE CIRCUIT IN D.C.										
Number of elements in Pb	120+120									

ELECTRICAL DATA	UPS Power (kVA)										
ELECTRICAL DATA	10	15	20	30	40	60	80	100	120		
INVERTER											
Nominal power (kVA)	10	15	20	30	40	60	80	100	120		
Active power PF 0,9 (kW)	9	13,5	18	27	36	54	72	90	108		
Active power PF charge from 0.9 inductive to 0.9 capacitive (kW)	9	13,5	18	27	36	54	72	90	108		
Nominal voltage		380/400/415 Vac three phase with neutral									
Nominal frequency		50 / 60Hz									
Static variation	± 1% ± 0,5%										
Restore within ±1%	20ms In conformity with EN 62040-3, class 1										
Current distortion with linear and distorting charge (EN 62040-3)	$\leq$ 2% with $\leq$ 1% with linear charge $\leq$ 3% with distorting charge $\leq$ 4% distorting							irge			

ELECTRICAL DATA	UPS Power (kVA)									
	10	15	20	30	40	60	80	100	120	
SYSTEM										
Ouput AC/AC (On line) - (%)										
Full charge	93,5	94,0	94,0	96,1	96,0	95,4	95,2	93,6	93,5	
75% Charge	93,0	93,8	94,0	96,2	96,2	95,5	95,6	94,0	94,0	
50% Charge	91,8	93,0	93,8	96,1	96,2	95,5	95,6	93,7	93,8	
25% Charge	89,3	91,6	91,6	95,0	95,7	94,6	94,9	92,3	92,5	
Operating temperature	0 ± 40 °C									



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