

# Kinetic 3P/3P

## True on-Line Double Conversion



- Very simple transformerless UPS structure
- Centralized control that coordinates PFC and Inverter by DSP
- Output Power Factor 0.8
- Excellent input current distortion
- Excellent input current sharing
- Auto bypass system activated to preserve the output continuity during power failure
- Supplies all type of loads: resistive, capacitive, non linear, discharge lamps or motors.
- IGBT technology in the Inverter and Rectifier
- Global efficiency >92%
- All the boards are accessible by front & up except the power stage with lateral access
- Easy to use LCD display for alarm control

Kinetic 3P/3P Series

### Kinetic 3-phase (3:3) Online UPS Selection Guide

Nominal power	Kinetic 10K	Kinetic 15K	Kinetic 20K	Kinetic 30K	Kinetic 40K	Kinetic 60K	Kinetic 80K
<b>CAPACITY(VA/W)</b>	10KVA/8KW	15KVA/12KW	20KVA/16KW	30KVA/24KW	40KVA/32KW	60KVA/48KW	80KVA/64KW
<b>INPUT</b>							
Nominal Voltage	3 x 400V (3Ph + N)						
Acceptable Voltage Range	+15% or -20%						
Frequency	50 / 60 Hz ± 5 %						
Total Harmonic Distortion (THDi)	< 1.5% @ 100% load < 2.5% @ 50% load < 6.0% @ 10% load					< 1.0% @ 100% load < 2.0% @ 50% load < 5.0% @ 10% load	
Current Limitation	High overload: PFC Limit (discharging batteries)						
Power Factor	1.0						
<b>INVERTER</b>							
Nominal Voltage	3 x 400V (3Ph + N)						
Precision	Stationary: ±1% Transitory: ±2% (load variations 100-0-100%)						
Frequency	50/60 Hz synchronised ±4 %						
Max. Synchronisation Speed	±1 Hz/s						
Waveform	Pure Sinewave						
Total Harmonic Distortion (THDv)	<0.5% (Linear Load) <1.5% (Non-linear Load)						
Phase Displacement	120° ±1% (balanced load) 120° ±2% (imbalances 50% of the load)						
Dynamic Recovery Time	10 ms. at 98 % of the static value						
Admissible Overload	125% for 10 min., 150% for 60 s						
Admissible Crest Factor	3.4: 1			3.2: 1			
Admissible Power Factor	0.1 inductive to 0.1 capacitive						
Imbalance Output Voltage @ 100% Unbalanced Load	< 1 %						
Current Limit	High overload, short-circuit: RMS Voltage Limit						
<b>STATIC BYPASS</b>							
Type	Solid state						
Voltage	3x400V (3Ph + N)						
Frequency	50/60 Hz						
Activation criterion	Microprocessor control						
Transfer time	Zero						
Admissible overload	400% for 10 sec						
Transfer to bypass	Immediate, for overloads above 150%						
Retransfer	Automatic after alarm clear						
<b>MANUAL BYPASS (MAINTENANCE)</b>							
Type	Without interruption						
Voltage	3 x 400V (3Ph + N)						
Frequency	50 / 60 Hz						
Overall Efficiency (Line mode)	90,0 %	90,5 %	91,0 %	92,0 %	92,5 %	93,05 %	94,0 %
<b>PHYSICAL</b>							
Dimensions, D x W x H (mm)	700 x 450 x 1100			980 x 650 x 1320			
Net Weight (without batteries) (Kg)	120			190	200	300	
Built-in Batteries Type (2x31)	12V 3.3Ah	12V 7Ah	12V 7.2Ah	12V 12Ah	12V 18Ah	-	-
Net Weight (w/built-in batteries) (Kg)	250		250	530		-	
<b>EXTERNAL BATTERY CABINET 1</b>							
Dimensions, D x W x H (mm)	700 x 450 x 110			980 x 650 x 1320			
Built-in Battery Type (2x31)	12V 12Ah			12V 26Ah		-	
Net Weight (Kg)	250			710			
<b>EXTERNAL BATTERY CABINET 2</b>							
Dimensions, D x W x H (mm)	700 x 450 x 1100			980 x 650 x 1320			
Built-in Battery Type (2x31)	12V 18 Ah			12V 40Ah			
Net Weight (Kg)	410			1020			