

PLA

THREE PHASE 10-200KVA

UNINTERRUPTIBLE POWER SUPPLIES - UPS TECHNICAL SPECIFICATION

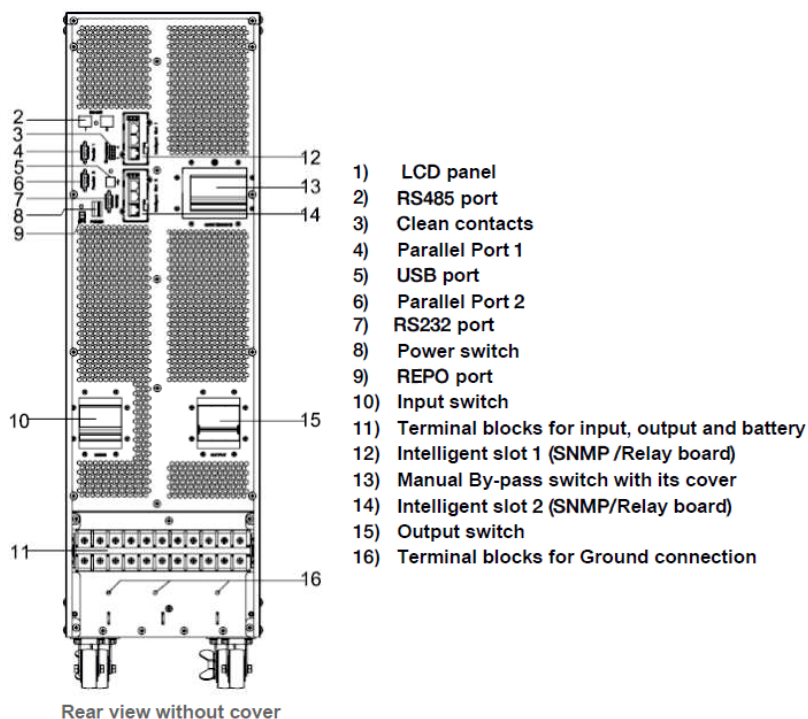
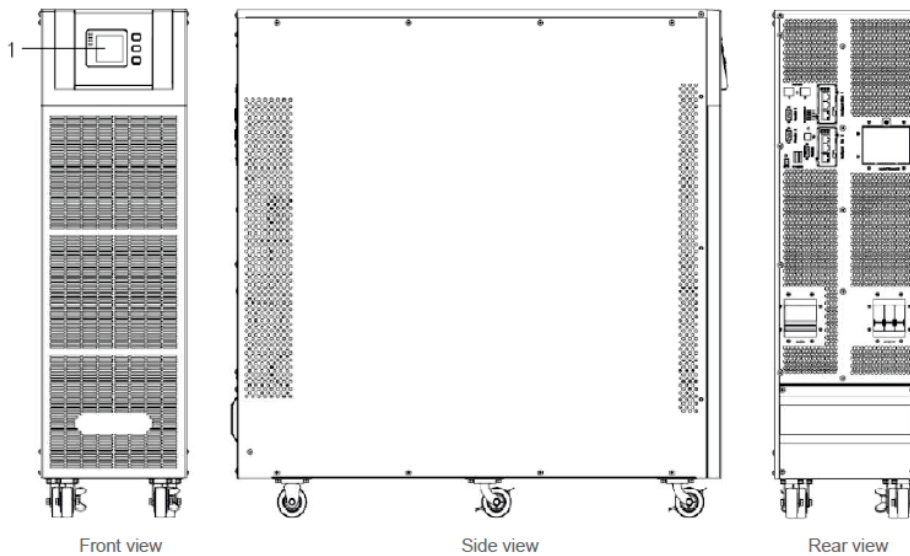


PLA is a true on-line UPS, double conversion technology with high efficiency. Input and Output voltages are three-phase. Rating power available from 10kVA to 200kVA. High performance and high efficiency with PF 0,9. PLA uses power modular technology and it works in redundancy mode N+x. It is a flexible system, in fact is possible to add or remove power cabinets depending by the amount of load to supply. In this way it is possible to optimize the financial investments by escalating the configuration according to the real needs. PLA can be used for any kind of load: IT, AUTOMATIC MACHINE, DATA CENTER, HOSPITAL, INDUSTRY, etc. PLA can solve every kind of problems, such as blackouts, spikes, voltage disturbances, frequency disturbances, harmonic distortion (THD <2%) current noise, brownouts, surges, and so on. PLA series uses a Digital Signal Processor (DSP) control to increase the reliability, the efficiency, and for auto protection and auto diagnosis. PLA series keep input current balanced. No unbalance problems may occur during the operation.

MAIN FEATURES

- True On-line UPS input three-phase + N, output three-phase + N
- Switching time 0 ms
- Power factor 0,9 – (optional 0,8)
- LCD display
- Modular power from 10kVA to 200kVA
- DSP (Digital Signal Processor)
- Input Low distortion < 2%
- ECO mode function

Optional: SNMP, MODBUS, RELAY. Standard: USB port, RS485, EPO contact



Dimensions and weight may be subject to a change without notice

K-FACTOR SRL unipersonale - Via Giotto 9 – 42014 Castellarano (RE) - Italy - VAT# IT 02422010369

R.E.A. of Reggio Emilia: n. 286968 – Company registration number of RE: 02422010369

Tel +39-0536261380 – e-mail: info@kfactor.it - <http://www.kfactor.it/en>

MODULAR POWER TECHNOLOGY

Modular power technology used for PLA series is an easy "Parallel concept".

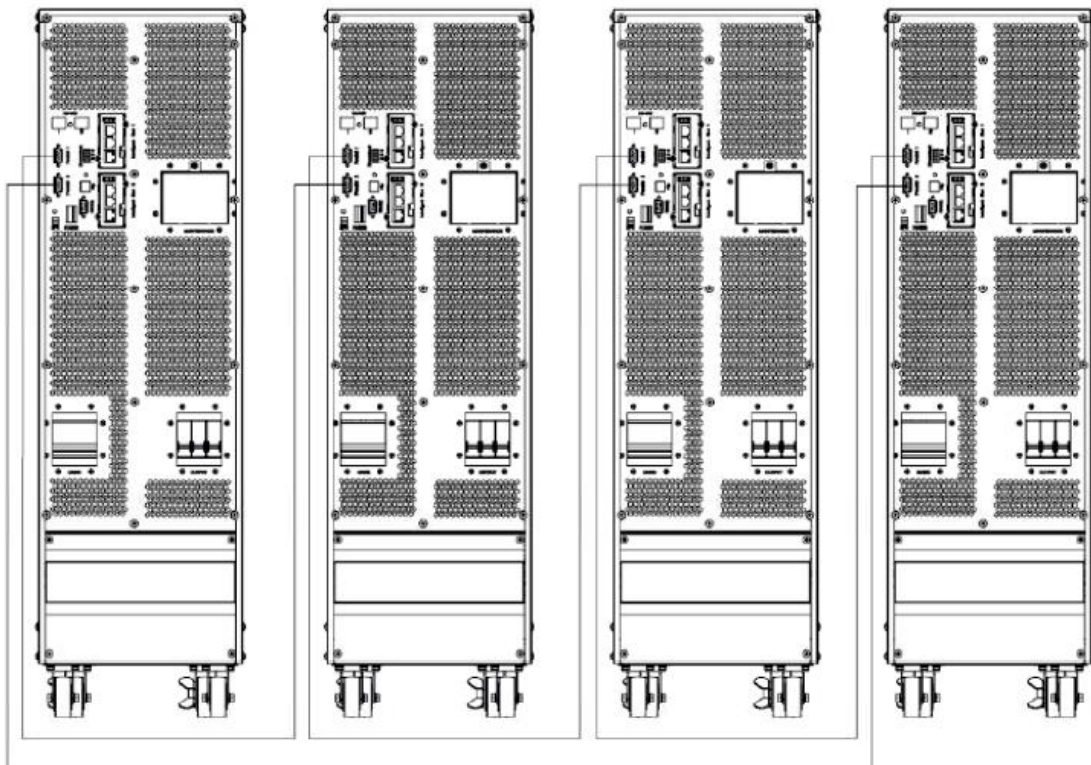
PLA series has an intelligent sensor which automatically detects other UPSs with same power.

No settings via software, no parallel boards needed, UPS it is always ready and with a self test reset and adjust its output power.

Parallel control cables are shielded with double isolation to avoid noise interference.

The cables are connected in ring mode, as shown in the picture below.

Ring connection is very reliable.



The parallel configuration guarantees a higher reliability than a single "full power" UPS. For making a correct configuration it is important to meet the items written below:

- 1) Every UPS must have the same power and connected to the same by-pass line .
- 2) The electric cables (input, output, by-pass) must have the same length and same characteristics

MODEL		PLA10	PLA15	PLA20	PLA30	PLA40	PLA60	
Input	Power	10KVA 9KW	15KVA 13.5KW	20KVA 18KW	30KVA 27KW	40KVA 36KW	60KVA 54KW	
	No. of phases	3 phase 4 wires + PE						
	Rated voltage	380/400/415Vac						
	Voltage range	208~478Vac						
	Frequency range	45-55Hz a 50Hz / 56-66Hz to 60Hz (auto sensing)						
	Power factor	≥0.99						
	THDi	≤2%(100% non linear load)						
	By-pass voltage range	Max voltage.: 220Vac:+25% (optional +5%,+10%,+15%) 230Vac:+20% (optional +10%,+15%) 240Vac:+15% (optional +10%) Min voltage.: -45% (optional -20%、-30%) Frequency protection range: ±10%						
	Generator input	Supported						
Output	No. of phases	3 phase 4 wires + PE						
	Rated voltage	380/400/415Vac						
	Power factor	0.9						
	Voltage accuracy	±1%						
	Frequency	Line	±1%、±2%、±4%、±5%、±10% rated frequency (optional)					
		Battery	(50/60±0.1%)Hz					
	Crest Factor	3:1						
THD	≤1% linear load - ≤3% non linear load							
Efficiency		≥96,5%	≥97,5%					
Battery	Quantity	Dynamic 16-18-20pcs (configurable)						
	Autonomy	10' standard with embedded battery						
Overload		Normal op.: 110% 60' - 125% 10' - 150% 1' - >150% switch to bypass						
Self-check		Automatic self test at switch on						
Display		LCD: Voltage IN/OUT - Frequency IN/OUT - Load - Battery Voltage Operating Temp. - Overload - Failure – Alarms						
Interface		USB - RS485 - Clean Contacts- Intelligent slot						
Communication		SNMP (optional) - MODBUS (optional) - RELAY card (optional)						
Operating temperature		Operating: 0° + 40° / Storage: -25° + 55°						
Dimensions (DxWxH) mm		828x250x868					828x500x868	
Number of units		1					2	

Dimensions and weight may be subject to a change without notice

K-FACTOR SRL unipersonale - Via Giotto 9 – 42014 Castellarano (RE) - Italy - VAT# IT 02422010369

R.E.A. of Reggio Emilia: n. 286968 – Company registration number of RE: 02422010369

Tel +39-0536261380 – e-mail: info@kfactor.it - http://www.kfactor.it/en

MODEL		PLA80	PLA100	PLA120	PLA160	PLA180	PLA200	
Input	Power	80KVA 72KW	100KVA 90KW	120KVA 108KW	160KVA 144KW	180KVA 144KW	200KVA 160KW	
	No. of phases	3 phase 4 wires + PE						
	Rated voltage	380/400/415Vac						
	Voltage range	208~478Vac						
	Frequency range	45-55Hz a 50Hz / 56-66Hz to 60Hz (auto sensing)						
	Power factor	≥0.99						
	THDi	≤2%(100% non linear load)						
	By-pass voltage range	Max voltage.: 220Vac:+25% (optional +5%,+10%,+15%) 230Vac:+20% (optional +10%,+15%) 240Vac:+15% (optional +10%) Min voltage.: -45% (optional -20%、-30%) Frequency protection range: ±10%						
	Generator input	Supported						
Output	No. of phases	3 phase 4 wires + PE						
	Rated voltage	380/400/415Vac						
	Power factor	0.9				0.8		
	Voltage accuracy	±1%						
	Frequency	Line	±1%、±2%、±4%、±5%、±10% rated frequency (optional)					
		Battery	(50/60±0.1%)Hz					
	Crest Factor	3:1						
THD	≤1% linear load - ≤3% non linear load							
Efficiency		≥96,5%		≥97,5%				
Battery	Quantity	Dynamic 16-18-20pcs (configurable)						
	Autonomy	10' standard with embedded battery						
Overload		Normal op.: 110% 60' - 125% 10' - 150% 1' - >150% switch to bypass						
Self-check		Automatic self test at switch on						
Display		LCD: Voltage IN/OUT - Frequency IN/OUT - Load - Battery Voltage Operating Temp. - Overload - Failure – Alarms						
Interface		USB - RS485 - Clean Contacts- Intelligent slot						
Communication		SNMP (optional) - MODBUS (optional) - RELAY card (optional)						
Operating temperature		Operating: 0° + 40° / Storage: -25° + 55°						
Dimensions (DxWxH) mm		828x500x868	828x750x868		828x1000x868			
Number of units		2	3		4			

Dimensions and weight may be subject to a change without notice

K-FACTOR SRL unipersonale - Via Giotto 9 – 42014 Castellarano (RE) - Italy - VAT# IT 02422010369

R.E.A. of Reggio Emilia: n. 286968 – Company registration number of RE: 02422010369

Tel +39-0536261380 – e-mail: info@kfactor.it - http://www.kfactor.it/en