

# **P**olaris

*3phase 10k-180k*



Uninterruptible Power Supply



# POLARIS

True On-line UPS Double Conversion 3Phase 10K-180K

POLARIS is a true online UPS, double conversion technology and high efficiency. Input and Output voltage is three phase. Rating powers available from 10kVA to 180kVA.

High performance and high efficiency with PF 0,9.

POLARIS uses power modular technology and it works in redundancy N+X.

It is a flexible system, it is possible to add or remove the power cabinet depending on the load to connect. In this case it is possible to make a gradual investment.

POLARIS can be used for every kind of load: IT, AUTOMATIC MACHINE, DATA CENTER, HOSPITAL, INDUSTRY.

POLARIS can solve every kind of problems, blackout, spikes, voltage problems, frequency problems, harmonic distortion (THD <2%), current noise...

POLARIS serie uses a Digital Signal Processor (DSP), it increase the reliability, the efficiency, auto protection and auto diagnosis.

It is an UPS with high intensity with balance input current. No imbalance problems.



Polaris 3phase 10k-180k

## MAIN FEATURES:

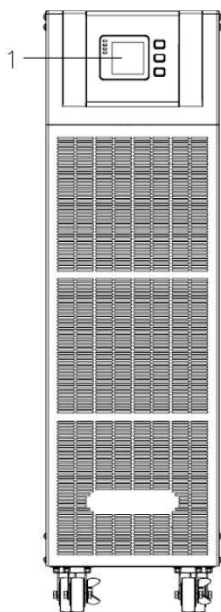
- True On-line UPS input three phase + N, output three phase + N
- Switching time 0ms
- Power factor 0,9 – (optional 0,8)
- LCD display
- Modular power from 10Kva to 180Kva
- DSP (Digital Signal Processor)
- Input Low distortion < 2%
- ECO mode function
- Optional: SNMP, MODBUS, RELAY. Standard: USB port, RS485, EPO contact



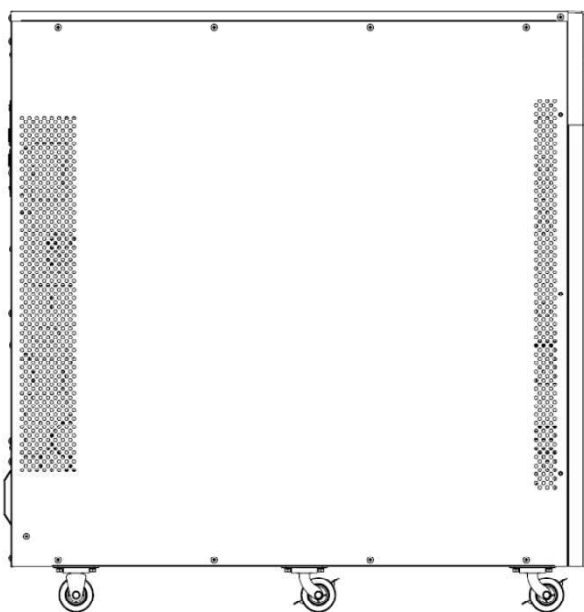
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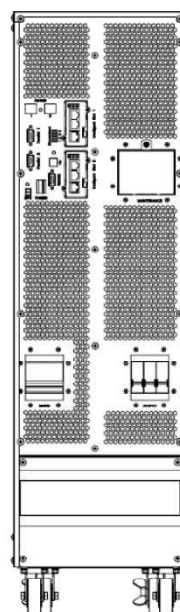
## UPS VIEW:



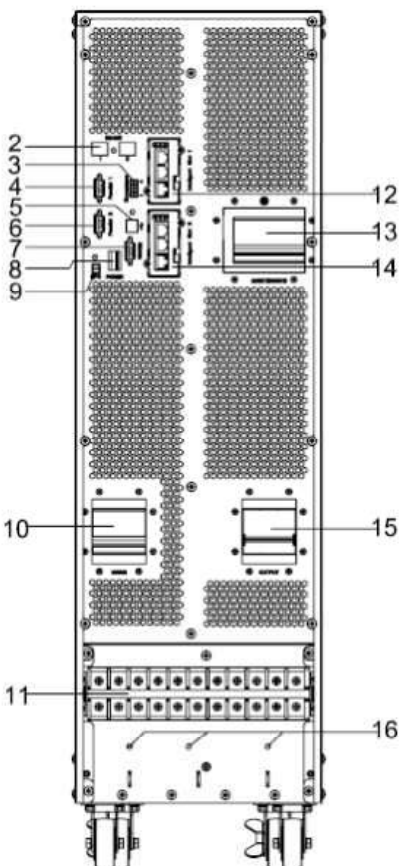
Frontal View



Side View



Rear View



- 1) LCD display
- 2) RS485 port
- 3) Relè contacts
- 4) Parallel port 1
- 5) USB port
- 6) Parallel port 2
- 7) RS232 port
- 8) Power Switch
- 9) REPO port
- 10) Input Switch
- 11) Input, Output, Battery terminal block
- 12) Intelligent Slot 1 (SNMP/Relè board)
- 13) Manual Bypass Switch
- 14) Intelligent Slot 2 (SNMP/Relè board)
- 15) Output Switch
- 16) Land Clamp

Rear View (terminal block without cover)

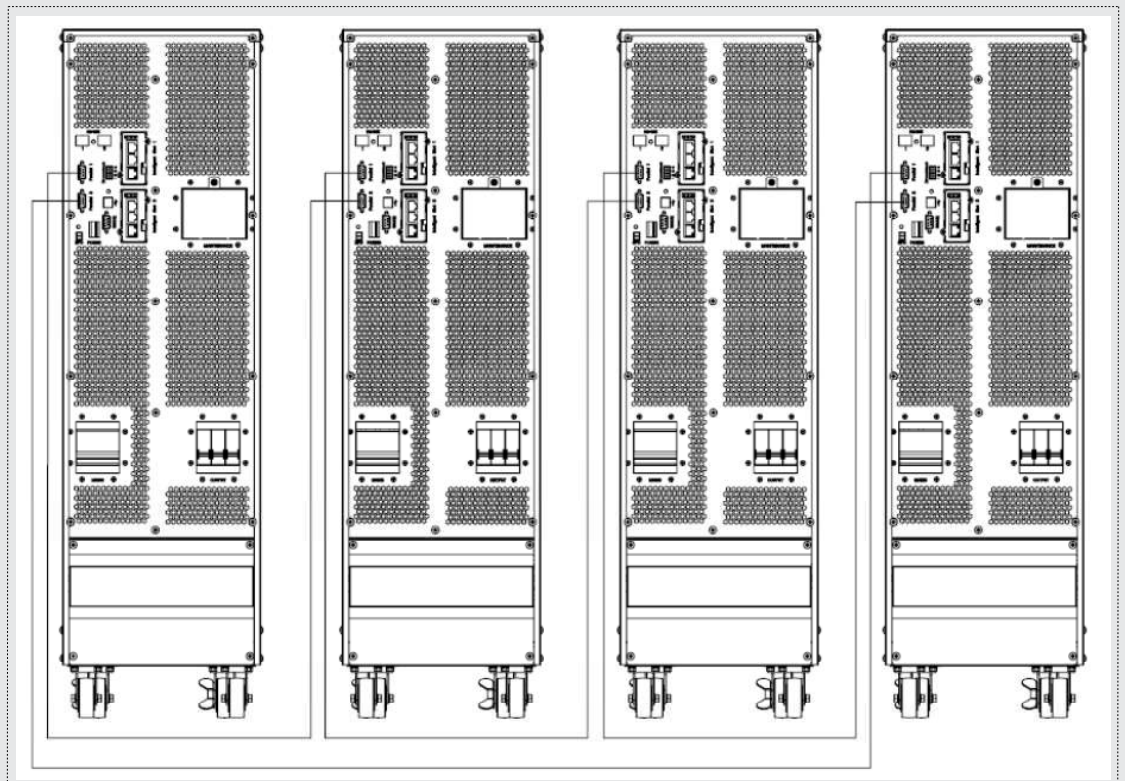


## Modular power technology

Modular power technology used for POLARIS serie is an easy "Parallel concept".

POLARIS serie has an intelligent sensor who finds automatically others UPS with same power. No settings via software, no parallel boards, UPS it is always ready and with an auto self test reset the output power.

Parallel control cables are shielded with double isolation.  
The cables connections is a ring, like the picture below.  
Ring connections is very reliable.



The parallel configuration guarantee more reliability than a single UPS.  
To make a correct configuration it is important to respect the points 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 lenght and same specifications.



MODEL	POLARIS10	POLARIS15	POLARIS20	POLARIS30	POLARIS40
POWER	10KVA/9KW	15KVA/13,5KW	20KVA/18KW	30KVA/27KW	40KVA/36KW
INPUT	3 PHASE + N				
VOLTAGE	380-400-415 Vac +/- 20%				
FREQUENCY	45 - 60 Hz (auto sensing) +/- 10%				
POWER FACTOR	0,99				
THDi	< 2%				
OUTPUT	3 PHASE + N				
VOLTAGE	380-400-415 Vac				
FREQUENCY	45 - 60 Hz (+/- 0,1%)				
POWER FACTOR	0,9	0,9	0,9	0,9	0,9
THDo	< 1% (linear load) - <3% (not linear load)				
EFFICIENCY	> 96,5%	> 97,5%	> 97,5%	> 97,5%	> 97,5%
BATTERY	Dynamic 16pcs - 18pcs. - 20pcs. (configurable)				
BACK UP TIME	10' standard				
NORM	EN-50171				
SWITCHING TIME	0 ms.				
OVERLOAD	Normal mode: 110% 60' - 125% 10' - 150% 1' - >150% trasf. In bypass				
SELF TEST	Automatic self test at switch on				
DISPLAY	LCD: Voltage IN/OUT - Frequency IN/OUT - Load - Battery Voltage Running temperature - Overload - Malfunction - Alarms				
PORTS	USB - RS485 - CLEAR CONTACTS - INTELLIGENT SLOT				
COMUNICATIONS BOARDS	SNMP (optional) - MODBUS (optional) - RELAY BOARD (optional)				
TEMPERATURE	Operation: 0° + 40° / Storage: -25° + 55°				
DIMENSIONS (PxLxH)	828x250x868	828x250x868	828x250x868	828x250x868	828x250x868
Nr. UNITS	1	1	1	1	1

MODEL	POLARIS60	POLARIS80	POLARIS100	POLARIS120	POLARIS160	POLARIS180
POWER	60KVA/54kW	80KVA/72KW	100KVA/81KW	120KVA/108KW	160KVA/144KW	180KVA/144KW
INPUT	3 PHASE + N					
VOLTAGE	380-400-415 Vac +/- 20%					
FREQUENCY	45 - 60 Hz (auto sensing) +/- 10%					
POWER FACTOR	0,99					
THDi	< 2%					
OUTPUT	3 PHASE + N					
VOLTAGE	380-400-415 Vac					
FREQUENCY	45 - 60 Hz (+/- 0,1%)					
POWER FACTOR	0,9	0,9	0,8	0,9	0,9	0,8
THDo	< 1% (linear load) - <3% (not linear load)					
EFFICIENCY	> 97,5%	> 97,5%	> 97,5%	> 97,5%	> 97,5%	> 97,5%
BATTERY	Dynamic 16pcs - 18pcs. - 20pcs. (configurable)					
BACK UP TIME	10' standard					
NORM	EN-50171					
SWITCHING TIME	0 ms.					
OVERLOAD	Normal mode: 110% 60' - 125% 10' - 150% 1' - >150% trasf. In bypass					
SELF TEST	Automatic self test at switch on					
DISPLAY	LCD: Voltage IN/OUT - Frequency IN/OUT - Load - Battery Voltage Running temperature - Overload - Malfunction - Alarms					
PORTS	USB - RS485 - CLEAR CONTACTS - INTELLIGENT SLOT					
COMUNICATIONS BOARD	SNMP (optional) - MODBUS (optional) - RELAY BOARD (optional)					
TEMPERATURE	Operation: 0° + 40° / Storage: -25° + 55°					
DIMENSIONS (PxLxH)	828x500x868	828x500x868	828x750x868	828x750x868	828x1000x868	828x1000x868
Nr. UNITS	2	2	3	3	4	4





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