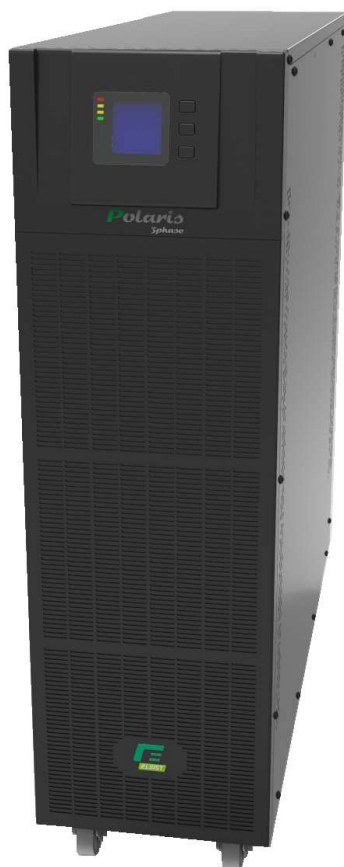


# Polaris

3Phase 10-200Kva



Uninterruptible power supplies

MODEL		POLARIS 10	POLARIS 15	POLARIS 20	POLARIS 30	POLARIS 40	POLARIS 60	
Input	Power	10KVA 9KW	15KVA 13.5KW	20KVA 18KW	30KVA 27KW	40KVA 36KW	60KVA 54KW	
	Phase	3 phase 4 wires + GND						
	Nominal Voltage	380/400/415Vac						
	Voltage range	208~478Vac						
	Frequency range	45-55Hz a 50Hz / 56-66Hz a 60Hz (auto detecting)						
	Power Factor	≥0.99						
	current THDi	≤2%(100% non linear load)						
	Voltage Bypass range	max. voltage: 220Vac:+25% (optional +5%,+10%,+15% ) 230Vac:+20% (optional +10%,+15% ) 240Vac:+15% (optional +10% ) min. voltage: -45% (opzionale -20%、 -30%) frequency protection interval: ±10%						
	Genset input	Supported						
Output	Phase	3 phase 4 wires + GND						
	Nominal Voltage	380/400/415Vac						
	Power Factor	0.9						
	Voltage tolerance	±1%						
	Frequency	with Mains	±1%、 ±2%、 ±4%、 ±5%、 ±10% of nominal frequency (optional)					
		In battery mode	(50/60±0.1%)Hz					
	Crest Factor	3:1						
THD	≤1% linear load ≤3% non linear load							
Efficiency (normal operation)		≥96,5%		≥97,5%				
Battery	Voltage	UPS standard: ±120Vdc (10+10) 12V 7/9AH UPS a lunga autonomia ±96V/±108V/±120Vdc (16/18/20 pz. Opzionale)				UPS standard: ±240Vdc (20+20) 12V 7/9AH UPS long autonomy: ±192/±204/±216/ ±228/±240Vdc (32/34/36/38/40 pz optional)	UPS standard: ±120Vdc (10+10) 12V 7/9AH UPS long autonomy ±96V/±108V/±120Vdc (16/18/20 pz. Optional)	
	Recharging current (A)	Recharge current is automatically set according to battery capacity, number of batteries and dynamic of battery pack UPS standard (20pcs): 1,35A UPS standard (2X20pcs): 2,7A UPS standard (3X20pcs): 4,5A UPS long autonomy: max 10A						
	Battery test	test runs every 30 days by default						
Switching time		from Mains to battery: 0ms from Mains to bypass: 0ms						

MODEL		POLARIS 10	POLARIS 15	POLARIS 20	POLARIS 30	POLARIS 40	POLARIS 60	
<b>Protection</b>	Overload	Normal operation	Load≤110%: duration 60min , ≤125%:duration10min , ≤150%:duration 1min , ≥150% switch to bypass					
		Battery operation	Load≤110%:duration 10min, ≤125%:duration 1min, ≤150%:duration 10s , ≥150% UPS is switched Off					
		Bypass mode	Switch 20A	Switch 32A	Switch 40A	Switch 63A	Switch 80A	Switch 2x63A
	Shortcircuit		include the whole UPS					
	Overheating		Normal operation: switch to Bypass, Battery operation: switch Off UPS					
	Battery discharged		Alarm and switch Off UPS					
	Self test		at UPS start-up or via Software command					
	EPO (optional)		Switch Off UPS					
	Battery		Advanced battery management					
	Noise suppression		Compliant to EN62040-2					
<b>Alarms</b>	Audible and Visible	Mains off, battery discharged, overload, UPS failure						
<b>Display</b>	LED e LCD status	Mains mode, Bypass mode, Battery discharged, Battery low, overload and failed UPS						
	visible on LCD display	Input Voltage, Input Frequency, Output voltage, Output frequency, Load percentage, Battery voltage, Internal Temperature etc..						
<b>Communication interface</b>		USB, RS485, Parallel (optional), dry contacts, Intelligent Slot, SNMP card (optional), Relay card (optional)						
<b>Ambient</b>	Operating temperature	0°C~40°C						
	Storage temperature	-25°C~55°C						
	Humidity	0~95% non condensing						
	Altitude	< 1500m. If >1500m nominal power is reduced						
	Noise	< 55dB				< 58dB		< 55dB
<b>Others</b>	Dimensions (D×W×H)	828x250x868					2 x 828x250x868	
	Weight (Kg) without batteries	42	45	45	71	73	2 x 71	
	Units	1					2	
<b>Safety compliance</b>		CE,EN/IEC 62040-3,EN/IEC 62040-1-1						
<b>Frequency converter function</b>		Yes						

MODEL		POLARIS 80	POLARIS 100	POLARIS 120	POLARIS 160	POLARIS 180	POLARIS 200	
Input	Power	80KVA 72KW	100KVA 90KW	120KVA 108KW	160KVA 144KW	180KVA 162KW	200KVA 180KW	
	Phase	3 Phase, 4 wires + GND						
	Nominal Voltage	380/400/415Vac						
	Voltage range	208~478Vac						
	Frequency range	45-55Hz a 50Hz / 56-66Hz a 60Hz (auto ranging)						
	Power Factor	≥0.99						
	Current THDi	≤2%(100% non linear load)						
	Voltage Bypass range	max. voltage: 220Vac:+25% (optional +5%,+10%,+15% ) 230Vac:+20% (optional +10%,+15% ) 240Vac:+15% (optional +10% ) min. voltage: -45% (opzionale -20%、 -30%) Frequency protection interval: ±10%						
Genset input	Supported							
Output	Phase	3 Phase, 4 wires + GND						
	Nominal Voltage	380/400/415Vac						
	Power Factor	0.9	0.9	0.9	0.9	0.9	0.9	
	Voltage Tolerance	±1%						
	Frequency	Mains present	±1%、 ±2%、 ±4%、 ±5%、 ±10% of nominal frequency (optional)					
		Battery Mode	(50/60±0.1%)Hz					
	Crest factor	3:1						
THD	≤1% linear load ≤3% non linear load							
Efficiency (normal operation)		≥97,5%						
Battery	Voltage	UPS standard: ±240Vdc (20+20) 12V 7/9AH UPS long autonomy: ±192/±204/±216/ ±228/±240Vdc (32/34/36/38/40 pcs optional)	UPS standard: ±120Vdc (10+10) 12V 7/9AH UPS long autonomy ±96V/±108V/±12 0Vdc (16/18/20 pcs. Optional)	UPS standard: ±240Vdc (20+20) 12V 7/9AH UPS long autonomy: ±192/±204/±216/±228/±240Vdc (32/34/36/38/40 pcs optional)				
	Recharging current (A)	Recharge current is automatically set according to battery capacity, number of batteries and dynamic of battery pack UPS standard (20pcs): 1,35A UPS standard (2X20pcs): 2,7A UPS standard (3X20pcs): 4,5A UPS long autonomy: max 10A						
	Battery test	Test runs every 30 days by default						
Switching time		from Mains to battery: 0ms from Mains to bypass: 0ms						

MODEL		POLARIS 80	POLARIS 100	POLARIS 120	POLARIS 160	POLARIS 180	POLARIS 200
<b>Protection</b>	Overload	Normal operation	Load≤110%:duration 60min , ≤125%:duration10min , ≤150%:duration 1min , ≥150% switch to bypass				
		Battery operation	Load≤110%:duration 10min, ≤125%:duration 1min, ≤150%:duration 10s , ≥150% switch Off UPS				
		Bypass mode	switch 2x80A	switch 3x63A	switch 3x80A	switch 4x80A	
	Overheating	Normal operation: switch to Bypass, Battery operation :SwitH Off UPS					
	Battery Discharged	Alarm and switch Off UPS					
	Self Test	at UPS start-up or via Software command					
	EPO	Switch Off UPS					
	Battery	Advanced battery management					
	Noise suppression	Compliant to EN62040-2					
<b>Alarms</b>	Audible and Visible	Mains off, battery discharged, overload, UPS failure					
<b>Display</b>	LED e LCD status	Mains mode, Bypass mode, Battery discharged, Battery low, overload and failed UPS					
	Visible on LCD display	Input Voltage, Input Frequency, Output voltage, Output frequency, Load percentage, Battery voltage, Internal Temperature etc..					
<b>Communication interface</b>		USB, RS485, Parallel (optional), dry contacts, Intelligent Slot, SNMP card (optional), Relay card (optional)					
<b>Ambient</b>	Operating temperature	0°C~40°C					
	Storage temperature	-25°C~55°C					
	Humidity	0~95% non condensing					
	Altitude	< 1500m. if >1500m nominal power is reduced					
	Noise	< 58dB	< 55dB	< 58dB			
<b>Altro</b>	Dimensions (DxWxH)	2x 828x250x868	3x 828x250x868		4x 828x250x868		
	Weight (Kg) without batteries	2 x 73	3 x 71	3 x 73	4 x 73		
	Units	2	3		4		
<b>Safety compliance</b>		CE, EN/IEC 62040-3, EN/IEC 62040-1-1					
<b>Frequency Converter function</b>		Yes					

<b>Battery Cabinet</b>	Dimensions (DxWxH) mm		502x250x616 (max 40 battery) 828x250x868 (max 80 battery)			
	Weight (Kg)	Max 40 Batt.	N/Batt:	31	20 (battery):	81
Max 80 Batt.			40 (battery):	131		
			N/Batt:	56	20 (battery):	106
			40 (battery):	156	60 (battery):	206
			80 (battery):	256		



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