

POLARIS 60 – 600

3-level



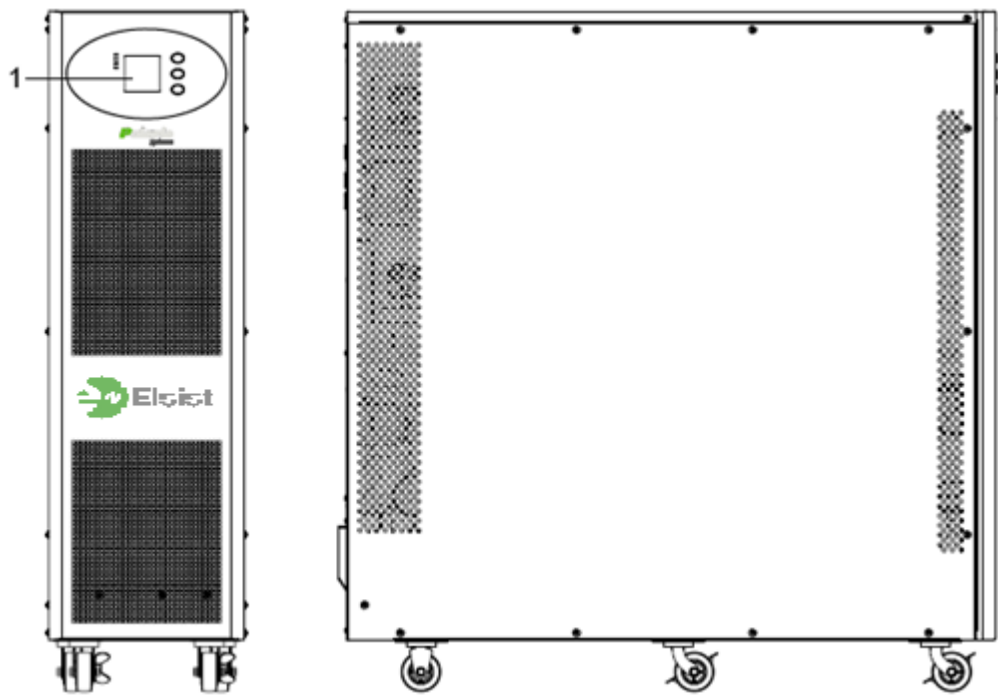
TECHNICAL SPECIFICATION

MODEL		POLARIS 60	POLARIS 80	POLARIS 100
Technology		On-line Double Conversion		
INPUT	Power (kVA/kW) *	60/60	80/80	100/100
	Phase	3 Phase + Neutral + Ground		
	Rated Voltage	380/400/415Vac		
	Voltage Range	138~485Vac		
	Frequency Range	40Hz - 70Hz		
	Power Factor	≥0.99		
	Current THDi	≤ 3%		
	Bypass Voltage Range	Max Voltage.: 220Vac:+25% (optional +10%,+15%,+20%) 230Vac:+20% (optional +10%,+15%) 240Vac:+15% (optional +10%) Min. Voltage.: -45% (optional -20%,-30%) Frequency protection range: ±10%		
	Generator Input	Supported		
OUTPUT	Phase	3 Phase + Neutral + Ground		
	Rated Voltage	380/400/415Vac		
	Power Factor	1.0		
	Voltage Regulation	±1%		
	Frequency	Utility Mode	Synchronized with input. When input frequency is > ± 10% (±1%, ±2%, ±4%, ±5%, optional)	
		Battery Mode	50/60*(1±0.02%) Hz	
	Crest Factor	3:1		
	THD	≤2% with linear load ≤4% with not linear load		
EFFICIENCY (in normal mode)		95,5%		
BATTERY	Voltage	±180V/±192V/±204V/±216V/±228V/±240/±252/±264/±276/±288/±300Vdc (30/32/34/36/38/40/42/44/46/48/50pcs optional) 360Vdc~600Vdc (30~50 pcs) 36 pcs standard, 36~50pz Output PF 1; 32~34pz Output PF 0.9; 30pz Output PF0.8)		
	Charge Current (A)	Charge current is automatically set in according to the capacity and the quantity of the batteries		
		Max 20A	Max 40A	
	Battery Test	Supported		
TRANSFER TIME		Utility to Battery: 0ms Utility to bypass: 0ms		

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PROTECTION	Overload	Load ≤ 110%: last 60min, ≤ 125%: last 10min, ≤ 150%: last 1min, ≥ 150% change to bypass immediately		
Alarms	Audible & Visual	Line Failure, Battery Low, Overload, System Fault etc.		
Display	Status LED & LCD	Line Mode, Bypass Mode, Battery Low, Battery Bad, Overload & UPS Fault		
	Shows on the LCD	Input Voltage, Input Frequency, Output Voltage, Output Frequency, Load Percentage, Battery Voltage & Inner Temperature etc.		
COMMUNICATION INTERFACE		USB, RS232, RS485, REPO, Parallel port (optional), optocoupler contact, LBS port, Backfeed port, Intelligent slot, SNMP card (optional), Relay card (optional)		
BACKFEED		Supported		
ENVIRONMENT	Operating Temperature	0°C~40°C		
	Storage Temperature	-25°C~55°C (without batteries)		
	Humidity	0~95% not condensing		
	Altitude	< 1500m, when >1500m lower the rated power for use		
	Noise	< 60dB	< 62dB	< 63dB
Other	UPS Dimension (D×W×H) cm	828x250x868	850x442x1200	
	UPS weight (Kg) without batteries	83	154	161
	Installation type	Vertical		
	Support type	Wheels		
SAFETY STANDARD		IEC/EN62040-1, IEC/EN62040-2, IEC/EN60950-1		
EMC STANDARD		EN62040-3, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8		
FREQUENCY CONVERTER FUNCTION		YES		

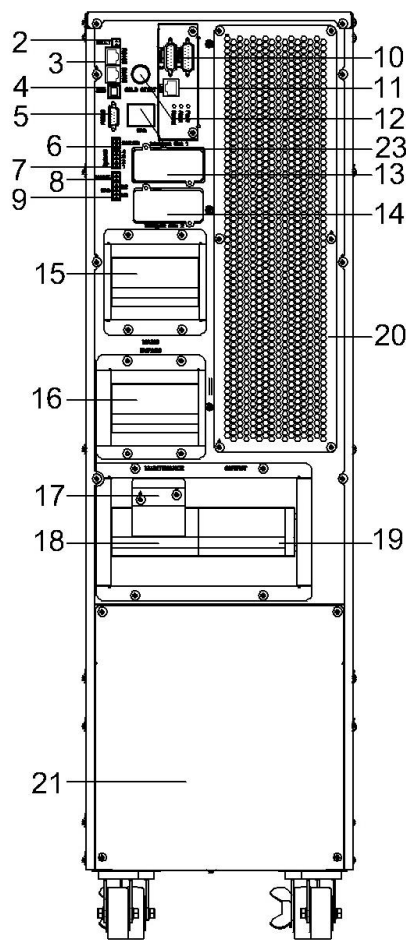
* Intermediate powers up to 600kVA can be obtained by connecting a maximum of 6 UPS of the same power in parallel.

POLARIS 60KVA:

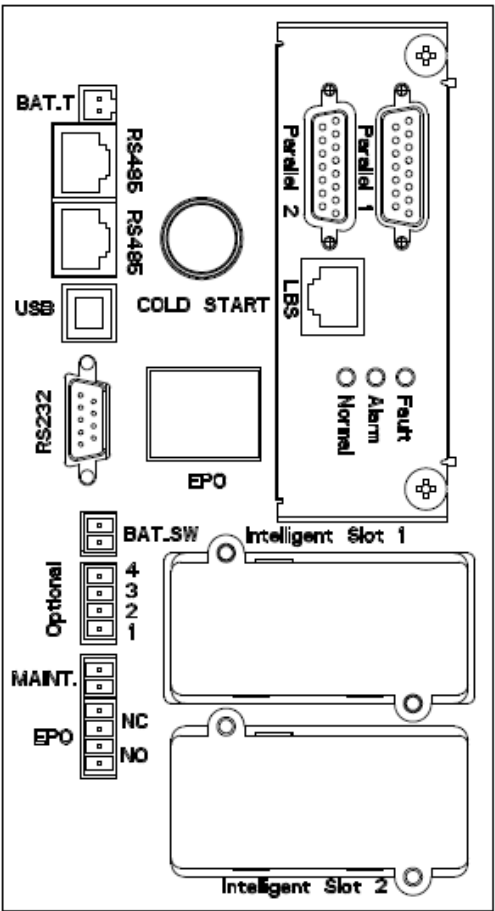


Frontal view

Side view

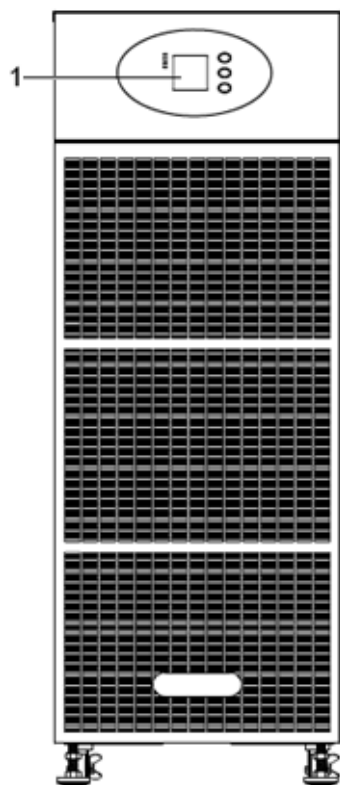


Rear view

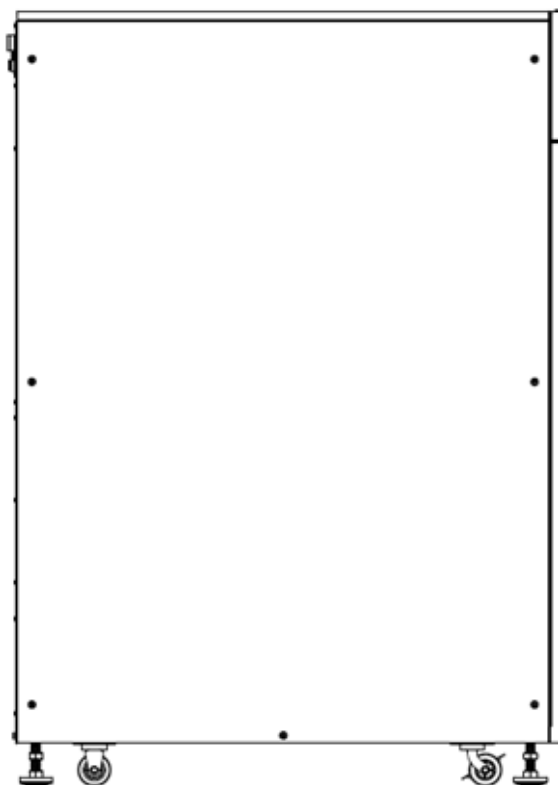


Monitor panel

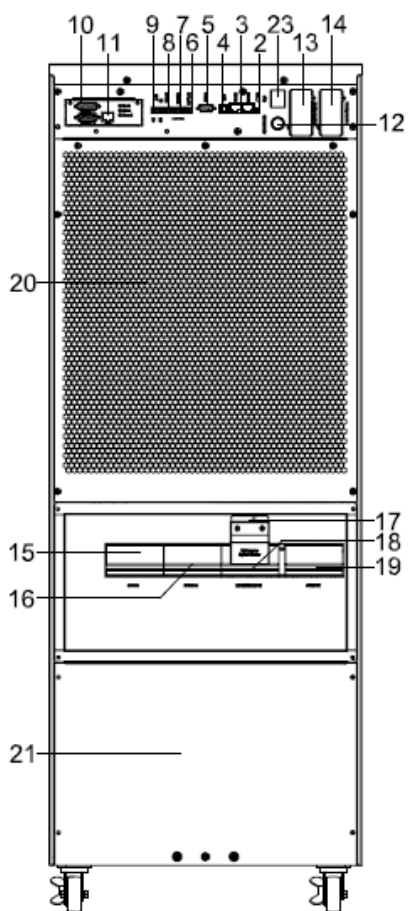
POLARIS 80-100KVA:



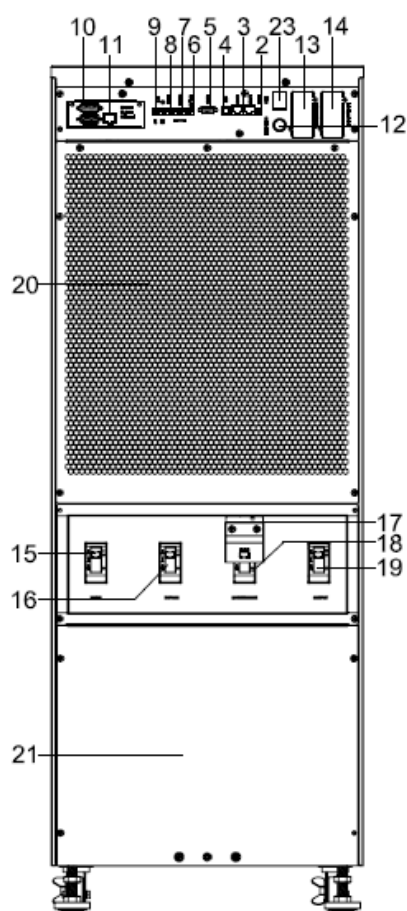
Frontal view



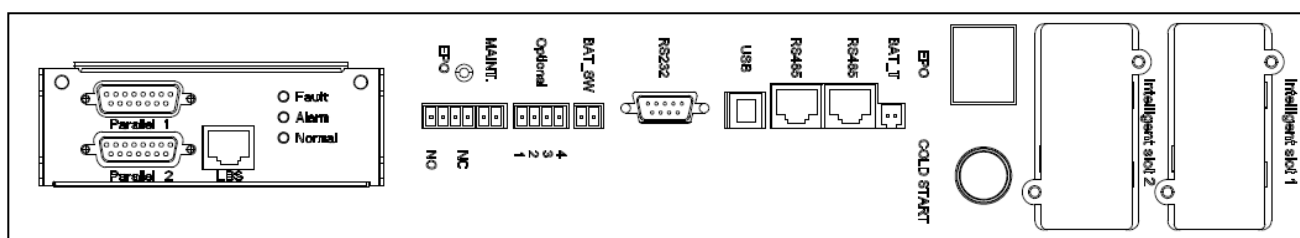
Side view



**Rear view
80KVA**

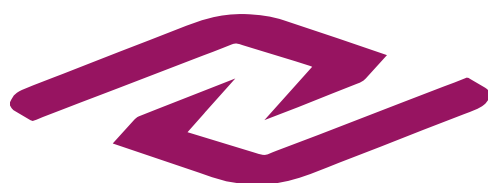


**Rear view
100KVA**



Monitor panel

(1) LCD panel	(2) Temperature sensor port (for NTC)
(3) RS485 port (for RS485 temperature sensor)	(4) USB port
(5) RS232	(6) BAT_SW : detect battery switch status
(7) Optional port (Port for Backfeed protection, or for battery breaker driver to prevent battery over-drain after UPS shuts down)	(8) MAINTAIN-AUXSWS port
(9) REPO port	(10) Parallel port
(11) LBS port	(12) Cold-start
(13) Intelligent Slot 1 (SNMP card/ Relay card)	(14) Intelligent Slot 2 (SNMP card/ Relay card)
(15) Mains breaker	(16) Bypass breaker
(17) Maintenance breaker cover	(18) Maintenance breaker
(19) Output breaker	(20) Cover for UPS Maintenance
(21) Cabling terminal cover	(22)
(23) EPO key	



Naicon

UNIT



Diloc



Elsist



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