

UPS Polaris RT-A 3000HC

HIGH POWER DENSITY
RACK-TOWER 2-IN-1 TRUE
DOUBLE CONVERSION
ONLINE UPS

- DSP Control
- 0.9 Output Power Factor
- Wide Input Range
- High Efficiency Mode(ECO)
- Frequency Converter Mode
- Compact Design
- Power Management Software
- Multiple Communication Ports
- Optional SNMP & Relay Cards
- Temperature Compensation



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MODELO		3KVA
PHASE		SINGLE PHASE WITH GROUND
CAPACITY (VA/WALTS)		3000VA/2700W
INPUT		
NOMINAL VOLTAGE		200/208/220/230/240VAC
OPERATING VOLTAGE RANGE	LOW LINE TRANSFER	160VAC±5% @100%-80% LOAD; 140VAC±5% @80%-70% LOAD; 120VAC±5% @70%-60% LOAD; 110VAC±5% @60%-0% LOAD; (AMBIENT TEMP. <35°C)
	LOW LINE COMEBACK	175VAC±5% @100%-80% LOAD; 155VAC±5% @80%-70% LOAD; 135VAC±5% @70%-60% LOAD; 125VAC±5% @60%-0% LOAD; (AMBIENT TEMP. <35°C)
	HIGH LINE TRANSFER	300VAC±5%
	HIGH LINE COMEBACK	290VAC±5%
OPERATING FREQUENCY RANGE		40-70HZ

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POWER FACTOR		0,99@100% LOAD (NOMINAL INPUT VOLTAGE)
BYPASS VOLTAGE RANGE		<p>BYPASS HIGH VOLTAGE POINT 230-264: SETTING THE HIGH VOLTAGE POINT IN LCD FROM 230VAC (DEFAULT: 264 VAC)</p> <p>BYPASS LOW VOLTAGE POINT 170-220: SETTING THE LOW VOLTAGE POINT IN LCD FROM 170VAC TO 220VAC (DEFAULT: 170 VAC)</p>
GENERATOR INPUT		SUPPORT
OUTPUT		
OUTPUT VOLTAGE		220/208/220/230/240VAC
POWER FACTOR		0,9
VOLTAGE REGULATION		±1%
FREQUENCY	LINE MODE (SYNCHRONIZED RANGE)	47-53HZ OR 57-63 HZ
	BAT. MODE	(50/60±0,1) HZ

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CREST FACTOR		3:1
HARMONIC DISTORTION (THDC)		≤3% THD WITH LINEAR LOAD ≤6% THD WITH NON LINEAR LOAD
WAVEFORM		PURE SINEWAVE
TRANSFER TIME	AC MODE <-> BALT. MODE	ZERO
	INVERTER <-> BYPASS	4MS (TYPICAL)
EFFICIENCY		92% (AC MODE) 90% (DC MODE)
BATTERY		
BATTERY TYPE		DEPENDS ON CONFIGURATION
NUMBERS		DEPENDING ON THE CAPACITY OF EXTERNAL BATTERIES

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BACKUP TIME	LONG RUN UNIT DEPENDS ON THE CAPACITY OF EXTERNAL BATTERIES
TYPICAL RECHARGE TIME	DEPENDING ON THE CAPACITY OF EXTERNAL BATTERIES
CHARGING VOLTAGE	82.1 VDC ±1%
CHARGE CURRENT	12A
SYSTEM FEATURES	
OVERLOAD @35°C	<p>AMBIENT TEMP. <35°C</p> <p>105%-110%: UPS TRANSFER TO BYPASS AFTER 10 MINUTES WHEN THE UTILITY IS NORMAL.</p> <p>110%-130%: UPS TRANSFER TO BYPASS AFTER 1 MINUTE WHEN THE UTILITY IS NORMAL</p> <p>130%-150%: UPS TRANSFER TO BYPASS AFTER 5 SECONDS WHEN THE UTILITY IS NORMAL</p> <p>>150%: UPS TRANSFER TO BYPASS IMMEDIATELY WHEN THE UTILITY IS NORMAL</p> <p>35°C<AMBIENT TEMP. <40°C</p> <p>105%-110%: UPS TRANSFER TO BYPASS AFTER 1 MINUTE WHEN THE UTILITY IS NORMAL</p> <p>110%-130%: UPS TRANSFER TO BYPASS AFTER 5 SECONDS WHEN THE UTILITY IS NORMAL</p> <p>>130%: UPS TRANSFER TO BYPASS IMMEDIATELY WHEN THE UTILITY IS NORMAL</p>

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SHORT CIRCUIT	HOLD WHOTE SYSTEM
OVERHEAT	LINE MODE: SWITCH TO BYPASS; BACKUP MODE: SHUT DOWN UPS IMMEDIATELY
LOW BATTERY VOLTAGE	ALARM AND SWITCH OFF
EPO (OPTIONAL)	SHUT DOWN UPS IMMEDIATELY
AUDIBLE & VISUAL ALARMS	LINE FAILURE, BATTERY LOW, OVERLOAD, SYSTEM FAULT
COMUINICATION INTERFACE	USB (OR RS232), SNMPCARD (OPTIONAL), RELATY CARD (OPTIONAL)
ENVIRONMENTAL	
OPERATING TEMPERATURE	0°C ≈ 40°C
STORAGE TEMPERATURE	-25°C ≈ 55°C
HUMIDITY RANGE	20-90 % RH @ 0-40°C (NON-CONDENSING)
ALTITUDE	<1500M
NOISE LEVEL	LESS THAN 50DBA AT 1 METER

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PHYSICAL	
DIMENSION WXHxD (MM)	440*720* 86,5
STANDARDS	
SAFETY	IEC/EN62040-1, IEC/EN60950-1
EMC	IEC61000-4-5, IEC61000-4-6, IEC61000-4-8

*DERATE TO 80% OF CAPACITY WHEN THE OUTPUT VOLTAGE IS ADJUSTED TO 200/208VAC.
 **PRODUCT SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT FURTHER NOTICE.

POLARIS
Energy Systems

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