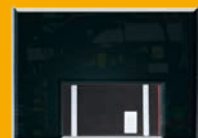


# Frigate ECO



- 5KVA Online UPS
- True double-conversion
- Highest power density UPS with built-in Li batteries
- Output power factor 0.9
- Rack/Tower design
- Wide input voltage range (170-280 VAC)
- Input power factor correction 0.98
- Programmable power management outlets
- Eco mode operation for energy saving (ECO)
- Emergent power off function (EPO Function)
- Smart battery charger design for optimized battery performance

30% footprint saving over lead-acid battery



S E P T E M B E R 2 0 1 1

## Frigate ECO Rack/Tower Online UPS Selection Guide

MODEL		Frigate ECO 5K
PHASE		Single phase with ground
CAPACITY		5000VA / 4500W
<b>INPUT</b>		
Voltage Range	Low Line Transfer	170 VAC ± 5 %
	Low Line Comeback	180VAC ± 5 %
	High Line Transfer	280VAC ± 5 %
	High Line Comeback	270VAC ± 5 %
Frequency Range		40 ~ 70 Hz (Auto sensing)
Power Factor		0.95~0.99 @ Nominal Voltage
<b>OUTPUT</b>		
Output Voltage		220/230/240 VAC
AC Voltage Regulation (Batt. Mode)		± 1%
Frequency Range (Synchronized Range)		47 ~ 53 Hz or 57 ~ 63 Hz
Frequency Range (Batt. Mode)		50 Hz ± 1Hz or 60 Hz ± 1Hz
Current Crest Ratio		3:1
Harmonic Distortion		≤ 3 % THD (Linear Load) ; ≤ 6 % THD (Non-linear Load)
Transfer Time	AC Mode to Batt. Mode	Zero
	Inverter to Bypass	4 ms (Typical)
Waveform (Batt. Mode)		Pure Sinewave
<b>EFFICIENCY</b>		
AC Mode		92%
Battery Mode		90%
ECO Mode		95%
<b>BATTERY</b>		
Battery Type		Li-battery 96V 5.0Ah
Battery Cells		Li-ion type
Battery Voltage		96V
Backup Time @ full load (Typical)		4 minutes
Typical Recharging Time		2 hours recover to 90% capacity
<b>INDICATORS</b>		
LCD	UPS status, Load level, Battery level, Input / Output voltage, Remaining backup time and Fault indicators	
<b>PHYSICAL</b>		
Dimension, D x W x H (mm)		600 X 438 X 88 [2U]
Net Weight (kgs)		21
<b>ENVIRONMENT</b>		
Humidity		0-95% RH @ 5- 40°C (Non-condensing)
Noise Level		Less than 55dBa @ 1 Meter & around UPS with less than 80% load
<b>MANAGEMENT</b>		
Smart RS-232/USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8, Linux, Unix, and MAC	
Optional SNMP	Power management from SNMP manager and web browser	

Product specifications are subject to change without further notice