



FRONTLINE - HF UPS

HARNESSING POWER THROUGH TECHNOLOGY





ONLINE HF UPS

SINGLE PHASE - SINGLE PHASE

800VA – 10KVA



ONLINE SYNERGY HF UPS SYSTEMS

-  PCs / Work Stations
-  Servers / Data Centers
-  Health Care Equipments
-  Security Systems
-  Communication Equipments

Frontline Synergy-HF series, a most advanced technology UPS, brings new level of efficiency and reliability in single-phase design. It is an innovative, microprocessor based, hi-frequency, APFC corrected, true online double conversion UPS with total control on harmonics at both input and output. Hi-Frequency technology specially developed for high crest factor loads, responds swiftly for changes in load ensuring superior quality power to the loads.

Active PF corrected boost converter with active current shaping techniques enhances input power factor as high as 0.98 with current harmonics less than 10% thus meets the stringent EMI/EMC standards, essential one for better utility of input resources

DSP processor controlled inverter and converter power circuits responds more efficiently to load and line variations ensuring highest level of power reliability.

Self-diagnostic feature during start-up reconfirms the stability of power and drive circuits by simulating fault conditions like utility failure, over temperature and thus ensures uninterrupted power during operation.

FEATURES

- Capacity 1 to 10KVA
- DSP Technology based
- High AC-AC efficiency
- Galvanic isolation option
- Field programmable
- Wide input window
- Ergonomically designed
- High MTBF
- SNMP option for remote monitoring

www.frontlineups.com

TECHNICAL SPECIFICATIONS

PARAMETER		FSS1000	FSS2000	FSS3000	FSS5000	FSS7500	FSS 10K
TOPOLOGY		Online UPS System					
TECHNOLOGY		Microprocessor based Online Double Conversion technology using IGBT					
CAPACITY		1000VA	2000VA	3000VA	5000VA	7500VA	10 KVA
INPUT							
Voltage range		150V to 280V at Full Load (Extendable window)					
Frequency		50Hz + /- 4Hz					
Power Factor		> 0.95					
Termination		Single phase, two wire with Earth					
OUTPUT							
Voltage		220/230/240 VAC + / - 1%					
Frequency		50Hz +/- 1% on free running					
Power Factor		Compatible with load of 0.8 / 0.9 / Unity					
Waveform		Pure Sinewave					
THD		<3%					
Crest Factor		3:1					
Overload		110% for 5 minutes					
Efficiency		Better than 90%					
ECO Mode		Optimum efficiency under ECO Mode					
BATTERY	DC BUS	24 / 36V	72 / 96V	72 / 96V	168 / 192 / 216 / 240V		
DISPLAY	LCD	LCD display to monitor various UPS parameters like I/P & O/P voltage, Frequency, Load percentage, Battery voltage, etc.,					
PROTECTION	General	Electronic protection for Output overload, Short cct, Over temp, Battery low and over charge					
	Safety	Protected against High Voltage Surges					
	EMI /EMC	Inbuilt protection for surge suppression and EMI/RFI filter provided					
ALARM	Audible	Mains Failure, Load on Battery, Inverter Fault, Low Battery					
COMMUNICATION	RS232	RS232 interface for Power Monitoring					
	SNMP	SNMP Compatible					
OPERATING ENVIRONMENT	Temperature	0 to 45C					
	Humidity	20 to 90% at 0 - 45C (Non condensing)					
	Noise	< 55DB (1M)					

