

# FAIRSTONE UPS

## SMART II SERIES



### FEATURES:

- True Standby On-Line UPS
- Easy LED Minis Display
- User-Friendly 32-Character LCD Display
- Multi-Function Touch Keys Control Panel
- Micro-Processor-Based True Intelligent UPS
- Isolation Between SP & GP
- Better Than 3 : 1 Crest Factor
- Smart Short Circuit Protection in Both AC Normal and Battery Mode
- Intelligent Current Limit for Overload Protection
- Completely No Battery Drain after Low Battery Cut-Off
- Advanced IGBT Technology
- Over 84% High System Efficiency
- Static Switch Auto Re-Transfer
- True RS232 Communication Port
- Novel/AS400 Interface Port
- Green Mode Operation
- Option for SNMP Agent Board

### SPECIFICATIONS

Model	81217	81417	81617	81730	81750	81730K	81750K	81750K
<b>MODE</b>	20KVA phase lock-up Inverter On-Line Mode							
<b>VA Rating</b>	2500	3750	5500	8000	10000	13000	15000	20000
<b>Wattage</b>	2000	3000	4400	6000	8000	10000	12000	16000
<b>Voltage</b>	Single phase, voltage rating same as input Terminal							
<b>Regulation</b>	±1.2% upon changes of line or load							
<b>Adjustment</b>	±10% of Nominal voltage							
<b>OUTPUT (AI Inverter GP mode)</b>								
<b>Frequency</b>	50/60 Hz ±0.5% (Free running)							
<b>Waveform</b>	PWM Sinewave							
<b>THD</b>	<1% (Line Load), <1% (5.7 FF Load)							
<b>Transient Response</b>	±1.5% under full load changes recover to stable within 100ms							
<b>Synchronization</b>	30Hz. Slow rate; Inverter Hz free running when SP Hz over ±1.5%							
<b>Crest factor</b>	Better than 3 : 1							
<b>INPUT</b>								
<b>Voltage*</b>	Single phase/3-φ-G/1-φ-11-0: 100,110,208,220,230V ±1% / -20%, 120,140V ±10-25%		Single phase: 220, 230 ±1% (20%) 240V ±10-25%		3-phase: 220/117V ±1% (20%) 380/220V ±1% (20%)		3-phase: 220/117V ±1% (20%) 380/220V ±1% (20%)	
<b>Frequency</b>	50/60 Hz ±1.5%							
<b>BACK UP</b>								
<b>Full load (min.)</b>	20-22	12-14	7-8	20-22	10-12	8-10	N/A	
<b>Half load (min.)</b>	45	30	20	45	30	24	N/A	
<b>Battery volt.</b>	102VDC							
<b>BATTERY</b>								
<b>Type</b>	12V17,2AH		12V26AH		12V17AH		N/A	
<b>Type</b>	Lead-acid maintenance free, 5-6 years life time.							
<b>Recharge</b>	80% in 8-10 hours							
<b>Auto Mode</b>	Active when Inverter High/Low voltage, Inhibit overload, over temperature, auto re-transfer after status reset							
<b>STATIC SWITCH</b>								
<b>Transfer time</b>	4 milliseconds Max.							
<b>Manual Mode</b>	Push control keypad to manually transfer from Inverter to bypass and vice versa.							
<b>General</b>	Micro-processor based circuitry monitors & controls system operation, logs operation history and alarm messages.							
<b>Control keys</b>	There are 8 keys for: 1. Display operating status & ratings 2. Control system on/off at either AC or Inverter or Bypass loop 3. System parameters settings 4. Alarm reset							
<b>CONTROL &amp; INDICATION</b>								
<b>LCD Display</b>	Two line 32 character alphanumeric display provides: 1. System operating status (auto display) 2. General settings (by pushing control keypad) 3. LCD Display Protection							
<b>LSD Display</b>	1. Overload/ System Fault/ Synchronized 2. RS232 Communication Signal - Run / Bx / Tx 3. Minus Display							
<b>Alarm</b>	Power Fail / Battery Low / System Fault / Bypass / Overload							
<b>Green Function</b>	Inverter No Load Auto-Transfer Bypass							
<b>True RS232</b>	DB9 port provides RS232 Signals (400bps, data length = 8, no parity, stop bit = 1)							
<b>INTERFACE PORT</b>	DB9 port provides the following signals, UPS On/Bypass/Power Fail/Battery Low/System Shutdown							
<b>NOVEL/AS400</b>								
<b>ISOLATION</b>	Between SP & GP Isolate both Inlet Terminal wires to have minimum over 100 Mega Ohm/500Vdc (not applicable to dual voltage configuration)							