

# 3PH ONLINE UPS BETA SERIES

(10KVA - 80KVA)

UPS

INVERTERS

ACCESSORIES

AVR

BATTERIES

SOLAR SOLUTION



1.0

Unity output power factor



Adjustable charging current (can support all battery sizes)



Support parallel function

## BENEFITS

- Active power factor correction in all phases
- True online double-conversion technology with high power density, utility frequency independence
- DSP technology to guarantee high reliability
- 50Hz/60Hz frequency converter mode
- Cold start function to startup the UPS without utility
- Emergency power off (EPO) function
- N+X parallel redundancy (Parallel capability up to 3 units).
- Accepts dual-mains inputs
- Smart battery charger design to optimize battery performance
- Maintenance bypass available
- Adjustable charging current
- Optional touch colored LCD screen

## APPLICATION



oil and gas fields



Internet networks



Hospital & testing laboratories



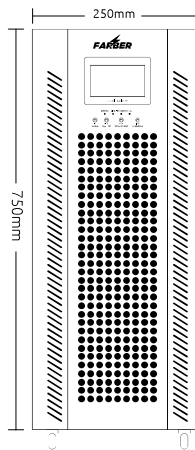
Factories



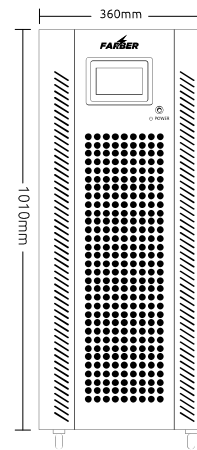
Servers

## SCHEMATICS

(10KVA)



(80KVA)



## FEATURES



Support dual main input



Zero transfer time



Smart system support  
SNMP, Modbus and parallel kit cards



Stable output voltage & frequency



ECO mode feature, which can increase battery life and losses decrease (Increase system efficiency)

# SPECIFICATION

| MODEL                                | FA-UPSX-480V-10KVA-3PH   | FA-UPSX-480V-30KVA-3PH  | FA-UPSX-480V-80KVA-3PH   |
|--------------------------------------|--|---|--|
| PHASE                                | 3-phase in/3-phase out   |   |  |
| Capacity(VA/Watts)                   | 10KVA/10KW   | 30KVA/30KW  | 80KVA/80KW   |
| <b>INPUT</b>                         |  |   |  |
| Nominal Voltage                      | 3 x 400 VAC (3Ph+N)  |   |  |
| Voltage Range                        | 190-520 VAC (3-phase) at 50% load ; 305-478 VAC (3-phase) at 100% load |   |  |
| Frequency range                      | 46~54Hz or 56~64Hz   |   |  |
| Power factor                         | ≥ 0.99 @ 100% Load   |   |  |
| <b>OUTPUT</b>                        |  |   |  |
| Output voltage                       | 3 x 360/380/400/415 VAC (3 Ph+N)                                       |   |  |
| AC Voltage Regulation (Batt. Mode)   | ± 1%   |   |  |
| Frequency Range (Synchronized Range) | 46~54Hz or 56~64Hz   |   |  |
| Frequency Range (Batt. Mode)         | 50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz                                       |   |  |
| Current Crest Ratio                  | 3:1  |   |  |
| Transfer Time AC Mode to Batt. Mode  | Zero   |   |  |
| Transfer Time Inverter to Bypass     | Zero   |   |  |
| Waveform (Batt. Mode)                | Pure Sine wave   |   |  |
| Overload AC Mode                     | 100-110% for 10 min, 110-130% for 1 min, >130% for 1 second            |   |  |
| Overload Battery Mode                | 100-110% for 30 seconds, 110-130% for 10 seconds, >130% for 1 second   |   |  |
| Parallel Capacity                    | up to 3 units in parallel  |   |  |
| <b>BATTERY</b>                       |  |   |  |
| Standard Model                       | Battery Type   | 12 V / 9 Ah or 12 V / 7Ah   |  |
|                                      | Numbers  | 20 pcs x (1-4) strings  | (20+20) pcs x 2 strings  |
|                                      | Typical Recharge Time  | 9 hours recover to 90% capacity   |  |
|                                      | Charging Current (Max.)  | 1A-12A (Adjustable)   |  |
|                                      | Charging Voltage   | 273 VDC ± 1% (Based on 20pcs batteries)   |  |
| Long-run Model                       | Battery Type   | Depending on the capacity of external batteries                                 |  |
|                                      | Numbers  | 32-40 pcs (Adjustable)  |  |
|                                      | Charging Current (Max.)  | 1A-12A (Adjustable)<br>Parallelable up to 3 charger boards to reach 36A maximum | 1A-24A (Adjustable)<br>Parallelable up to 3 sets of dual charger boards to reach 72A maximum |
|                                      | Charging Voltage   | +/- 13.65V x N (N=16~20)  |  |
| <b>PHYSICAL</b>                      |  |   |  |
| Standard Model                       | Dimension, DxWxH (mm)  | 781 x 250 x 750   | 815 x 300 x 1000   |
|                                      | Net Weight (kgs)   | 129   | 225  |
| Long-run Model                       | Dimension, DxWxH (mm)  | 781 x 250 x 750   | 815 x 300 x 1000   |
|                                      | Net Weight (kgs)   | 33  | 60   |
| <b>ENVIRONMENT</b>                   |  |   |  |
| Operation Temperature                | 0-40 °C  |   |  |
| Operation Humidity                   | < 95% and non-condensing   |   |  |

Available capacity: 10KVA, 20KVA, 30KVA, 40KVA, 60KVA & 80KVA

Modeling number: FA-UPSX-480V-XXKVA-3PH, Where XX=UPS capacity



Full protection for all common hazards



Include a system monitoring software



Support Email, SMS and trap IP alarm notifications



Weather sensors (Optional)

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