

Water Purification Technology

PFU-60-CP Conventional Powered Systems

PFU-60-SP Solar Powered Systems

*When safe water is a matter of life or death...
trust nothing but the best*



PFU-60 Features

The PFU-60 Series water treatment and purification systems are ideal for disaster preparedness, emergency response, and other applications in which a robust, fully reliable water source is absolutely essential. The PFU-60 features include:

- Small, portable, and efficient water purification units
- Ideal for disaster relief, military, rescue operations, missions, hospitals schools, and small communities
- Advanced robust design for emergency use and providing of drinking water to small villages and residential clusters
- Easy to use, with minimal training and maintenance
- Units can be scaled up or used in tandem for larger applications to serve thousands of residents
- Technology includes proprietary combination of primary filtration, carbon block, and UV disinfection
- Best application is the purification of contaminated well water, city water, river and lake water, and other fresh water sources
- Very effective on waterborne pathogens and contaminants (e.g., parasites, bacteria, and viruses) and nominal chemical contamination (e.g., Arsenic and toxic metals)
- Produces drinking water that meets International Drinking Water Standards, and USEPA NSF P248 (2008) and P231 Biological Challenge Standards
- Can be used in conjunction with conventional AC power (110 / 220 VAC), vehicle batteries, or solar power systems
- Typical total treatment cost is about \$0.01-\$0.02 per gallon and \$0.03-\$0.05 per gallon using full solar power (includes: amortization of capital cost + operating cost + consumables)

Standard Models

- Model # PFU-60-CP-3
- Model # PFU-60-SP-8
- Model # PFU-60-SP-16
- Model # PFU-60-SP-20

* Other models can be custom designed to meet customer specifications



Model: PFU-60-CP-3

The Model CP-3 can be powered by conventional 110/220 VAC, vehicle or other batteries, or by a solar powered trickle charger. This provides great flexibility in an emergency or other situation.

Battery Supply: AC/DC and Solar

Operational 110/220 VAC or Battery System = 24 hours/day

Operational Solar Powered Trickle Charger = 3 hours/day

Pumping Rate = 1 gallon/minute

Pumping Rate = 60 gallons/hour

Total Gallons/Day = 240 gallons/day (solar only)

Total Gallons/Day = 1,440 gallons/day

Solar Power Configuration

- 1 – 10 Watt Module
- 1 – 12 Volt Battery

PFU-60-CP-3 Package

The PFU-60-CP-3 package includes a treatment unit, pump, battery, solar power trickle charger, Pelican storage case, hoses and fittings, power cables for battery, spray nozzle for shower, pre-filtration screen, AC/DC power inverter, 2 UV bulbs, 2 quartz sleeves, 4 sediment filters, 4 carbon block filters, and 4 virus filters and an instruction manual.



Model: PFU-60-SP-8

The Model SP-8 can be powered by conventional 110/220 VAC, vehicle or other batteries, or by solar power only. This provides great flexibility in an emergency or other situation.

Battery Supply: AC/DC and Solar

Operational 110/220 VAC or Battery System = 24 hours/day

Operational Full Solar Power Only = 8 hours/day

Pumping Rate = 1 gallon/minute

Pumping Rate = 60 gallons/hour

Total Gallons/Day = 480 gallons/day (solar only)

Total Gallons/Day = 1,440 gallons/day

Solar Power Configuration

The solar power configuration is designed to run the PFU-60-SP-8 unit for 8 hours/day using solar energy only. The solar power system includes 50 watt solar modules, 105 Amp hour AGM batteries, mounting kits, 60 Amp controller, cable kits, and battery enclosures.

PFU-60-SP-8 Package

The PFU-60-SP-8 package includes a treatment unit, pump, battery, full solar power system, Pelican storage case, hoses and fittings, power cables for battery, spray nozzle for shower, pre-filtration screen, AC/DC power inverter, 2 UV bulbs, 2 quartz sleeves, 4 sediment filters, 4 carbon block filters, and 4 virus filters and an instruction manual.



Model: PFU-60-SP-16

The Model SP-16 can be powered by conventional 110/220 VAC, vehicle or other batteries, or by solar power only. This provides great flexibility in an emergency or other situation.

Battery Supply: AC/DC and Solar

Operational 110/220 VAC or Battery System = 24 hours/day

Operational Full Solar Power Only = 16 hours/day

Pumping Rate = 1 gallon/minute

Pumping Rate = 60 gallons/hour

Total Gallons/Day = 960 gallons/day (solar only)

Total Gallons/Day = 1,440 gallons/day

Solar Power Configuration

The solar power configuration is designed to run the PFU-60-SP-16 unit for 16 hours/day using solar energy only. The solar power system includes 50 watt solar modules, 105 Amp hour AGM batteries, mounting kits, 60 Amp controller, cable kits, and battery enclosures.

PFU-60-SP-16 Package

The PFU-60-SP-16 package includes a treatment unit, pump, battery, full solar power system, Pelican storage case, hoses and fittings, power cables for battery, spray nozzle for shower, pre-filtration screen, AC/DC power inverter, 2 UV bulbs, 2 quartz sleeves, 4 sediment filters, 4 carbon block filters, and 4 virus filters and an instruction manual.



Model: PFU-60-SP-20

The Model SP-20 can be powered by conventional 110/220 VAC, vehicle or other batteries, or by solar power only. This provides great flexibility in an emergency or other situation.

Battery Supply: AC/DC and Solar

Operational 110/220 VAC or Battery System = 24 hours/day

Operational Full Solar Power Only = 20 hours/day

Pumping Rate = 1 gallon/minute

Pumping Rate = 60 gallons/hour

Total Gallons/Day = 1,200 gallons/day (solar only)

Total Gallons/Day = 1,440 gallons/day

Solar Power Configuration

The solar power configuration is designed to run the PFU-60-SP-20 unit for 20 hours/day using solar energy only. The solar power system includes 50 watt solar modules, 105 Amp hour AGM batteries, mounting kits, 60 Amp controller, cable kits, and battery enclosures.

PFU-60-SP-20 package

The PFU-60-SP-16 package includes a treatment unit, pump, battery, full solar power system, Pelican storage case, hoses and fittings, power cables for battery, spray nozzle for shower, pre-filtration screen, AC/DC power inverter, 2 UV bulbs, 2 quartz sleeves, 4 sediment filters, 4 carbon block filters, and 4 virus filters and an instruction manual.

For further information and pricing, please contact:

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