

# F50

## F50 hydroelectric manual

Model corresponding power output of the generator type :( There are four different power outputs, divided into four segments models are as follows :)

(1) F50-80V: DC 0-80V output, the generator without the regulator circuit, the peak voltage reaches 80V, so you can directly 3-12V 10W LED lights, the battery can be charged directly to the small charging current maximum 220mA, because issued when electricity use was promptly charged off, the voltage is automatically maintained at about 14V, and maintain the most suitable voltage so that the electricity generated is used on all charge a small battery.

(2) F50-4.2V: DC 4.2V charging output, generators with charging management chip, can give without charge management chip ordinary rechargeable lithium battery.

(3) F50-5V: DC 5V regulated output can charge their cell phones, you can also give the lithium battery charging with charging management chip.

(4) F50-12V: DC 12V regulated output power can give 12V radios, charging, power supply to the LED lights.

### Technical conditions:

- (1) The maximum output voltage of 80V (1.2Mpa)
- (2) Maximum output current  $\geq 220\text{mA}$  (12V)
- (3) inter-wire resistive  $10.5 \pm 0.5\Omega$
- (4) Insulation resistance  $10\text{M}\Omega$  (DC100 megger)
- (5) The maximum pressure 0.6Mpa outlet closed
- (6) The maximum pressure 1.2Mpa outlet opening
- (7) Start pressure 0.05Mpa

### Mechanical properties and the operating environment:

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  - (1) Appearance: Generator surface clean, no rust, no scratches, solid structure.
  - (2) axial clearance 0.2-1.0mm
  - (3) mechanical noise  $\leq 55\text{dB}$
  - (4) Generators single volume: 90g around
  - (5) Generators life:  $\geq 3000\text{h}$
  - (6) Output Characteristics: without voltage regulator circuit the output pressure is proportional