

Product Name :
Automated Mini Hydroelectric Power Plant

Product Code :
DM119



Description :

Automated Mini Hydroelectric Power Plant

Technical Specification :

Automated Mini Hydroelectric Power Plant

General characteristics of the turbine-generator set:

Turbine-generator set with 6-jet distributor, with the possibility of adjusting three of the six injection nozzles

Stainless steel Pelton turbine

Protection against sprinkles between turbine and generator

Anticorrosion treatment of the distributor: abrasive blasting, hot sprayed zinc-plating and painting with epoxy paint

Permanent magnets synchronous generator

Rectifier, load controller

Technical characteristics of the turbine-generator set:

Rated voltage: 20 Vac - three-phase - variable frequency

Output electric power: $P = 100 - 500 \text{ W}$

Working range: height $H = 1 - 5 \text{ bar}$, flow rate $Q = 1 - 3 \text{ l/s}$

Characteristics of the hydraulic circuit:

Water tank with intake pipe, delivery pipe to the turbine and recirculation pipe

Stainless steel horizontal multistage mono block pump: power of 1100 W, flow rate of 60 l/min and discharge head of 40 m

2 pressure gauges, 1 flow sensor

Characteristics of the inverter:

Input voltage: 24 Vdc

Output voltage: 220/230 Vac
Output waveform: modified sine wave
Output frequency: 50 Hz
Continuous output power: 500 W
Output peak power: 1200 W
Efficiency: 90%
Protection against overload
Panel with 5 230 V
40 W power consuming apparatuses (lamps) with insertion switches.
Power supply: 230 Vac 50 Hz single-phase - 1400 VA
Dimensions: Control panel: 92 x 46 x 72 cm
Turbine-tank unit: 100 x 80 x 130 cm
Net weight: 170 -250 kg.

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