

2.14. MULTIFUNCTIONAL STAND-ALONE ELECTRICAL UNIT



The unit is intended to power consumers with a single-phase 220V voltage, charge 12/24 V rechargeable batteries, start internal combustion engines of vehicles.

Advantages: contactless generator execution. Improved harmonic composition of the output voltage. Non-critical to short circuit. Multifunctionality.

Technical specifications

Prime engine

Engine type - gasoline.

Rated speed frequency - 3000 r/min

Power - 7 HP, start - manual.

Generator

Engine type - asynchronous with a short-circuited rotor.

Rated / maximum power of the generator at active load 2/2.3 kW.

Rated voltage - 230 V.

Voltage deviation in a stable thermal state $\leq 10\%$.

Transient voltage deviation when resetting / increasing the rated load $\leq 30\%$.

Coefficient of voltage curve distortion $\leq 15\%$.

Recovery time after reset / increase of rated load ≤ 2 s

Stable frequency deviation $\leq 2.5\%$.

Start-charger

Output power / rated voltage in battery charging mode 400 W/12 V.

Input voltage 175÷242 V, 48÷52 Hz.

Charge current 0÷29 A.

Battery capacity up to 190 A*h.

Starting current of internal combustion engines 150 A.