

20 kVA LR POWER SUPPLY AND DISTRIBUTION SET

DESCRIPTION:

The 20 kVA power supply and distribution set on the LAND ROVER DEFENDER 130 chassis with the rated output power of 20 kVA (16 kW) represents a mobile, independent electrical energy source for general use, which enables the supply of the both three-phase and one-phase appliances in the 3 x 230/400 V, 50 Hz voltage system and together, it enables the accumulators charging or to supply the extra-low voltage appliances up to the 1000 W from the 28 V DC voltage system. It is intended for operation in the field conditions to ensure the electrical energy delivery immediately after the unit coming to the operational area.

The ZRS-20 kVALR is not intended for the parallel operation with a similar device or with the low voltage distribution mains and it is not intended for the operation during the transport.

OPERATIONAL CONDITIONS:

The ZRS-20 kVA LR is intended for continuous operation in the field conditions in the areas with mild climate:

- Ambient temperature form -30 °C až +44 °C; •
- Relative humidity up to 90 % at the temperature +30 °C; .
- Rain intensity up to 3 mm per minutes falling under the angle 30°; .
- Air dustiness up to 0,5 g/m³ for at least 1h; •
- Airflow up to 20 m/s.

The set is not intended for the operation during the mass destruction weapons using.

BASIC TACTICAL AND TECHNICAL DATA:

Vehicle type: Motor Stroke volume Maximal power Fuel consumption Dimensions $(I \times w \times h)$ Total weight 3 500 kg Ge Ra Mc Fu Fu

Compression ignition, supercharged, 5 cylinders 2 498 cm³ 90,0 kW at 4 200 min⁻¹ 12,7 l/100 km 5130 × 1930 × 2330 mm

Generating set type: Rated voltage, frequency	Č-EDM 16-T400/230-2V 3 × 230/400 V, 50 Hz
Motor EC	Compression ignition, supercharged, 4 cylinders, air cooling
Fuel consumption at the rated power	51.h ⁻¹
Fuel tank capacity	401
Alternator	synchronous, brushless
Total length of the distribution set cables	225 m





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