

POWER STATION ЭД80



Hatch drive

Pulse power supply unit



Diesel-generator P100P2

The mobile body-type power station is designed to supply special-purpose products with three-phase alternating current, 400V, 50Hz, from diesel-generator set or 380V, 50Hz, from supply mains.

Basic specifications

	Parameter, unit	Value	
		rated	tolerance
Supply mains	Voltage, V	380	±10 %
	Frequency, Hz	50	±1,5 %
	Consumption current, A, no more	165	
	Power, kW, no more	85	
Output parameters:	Current	Alternating, three-phase	
	Rated power of master and standby diesel-generators, kW, no less	70	
	Rated power of auxiliary diesel-generator, kW, no less	10	
	Current frequency, Hz	50	1%
	Rated voltage, V	400	±5%
	Rated current, A, no more	126	
	Power factor	0,8	
	Operating mode	continuous	
Degree of automation		2	
Capacity of fuel tanks, l	Diesel-generator P1002	2x230	
	Diesel-generator P13,5-4	45	
Track width, mm		2160	
Clearance, mm		380	
Turn of leading truck	from mid position to both sides, deg	30	
Transport speed over hard-surface road, kmh, no more		70	

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Design features:

- Power station is mounted into a van-body on the basis of KrAZ-trailer;
- Two diesel-generators P100P2 are installed endwise as power supply sources;
- Auxiliary diesel-generator P13,5-4 is installed inside the body by left side as power supply source during repair work;
- Power station is equipped with effective automation control system;
- Standby diesel-generator is energized automatically;
- Power station is equipped with automatic fire-alarm system;
- The warming of diesel-generators at low temperature from storage batteries in power station ЭД80-Т400-2ПК is provided automatically with an air heater, and required temperature in the body is kept with a fan heater;

The control system ensures:

- Performance control of diesel-generators and ancillary devices;
- Disaster protection and light-audio alarm at emergency state;
- Lighting and blackout mode (switching over from routine lighting in the body to blackout one when the open side hatches and entrance door).

Control panel ДГР100Р2



Control cabinet



Auxiliary board ИЧН-3



Auxiliary diesel-generator P13.5-4



Heater

Operating conditions:

- Ambient temperature	*From minus 40 up to plus 50°C	When power is decreased up to 63 kW and Aux.DG up to 7 kW
- Relative humidity	98 % at (25±5)°C	
- Altitude above sea-level up to, m	3000	When power is decreased up to 53 kW and Aux.DG up to 7 kW

* - Power station ЭД80-Т400-2ПК from 0 (minus 10 °)°C up to plus 50 (55)°C;
 - Power station ЭД80-Т400-2ПК from minus 40°C up to plus 50 (55)°C;

The control system of power station provides for the following control modes:

- local
- remote



Fire control panel

Overhaul life:	no less 25 000 h
Shared resource	20 years
MTBF	no less 1000 h at power 70 kW
MTTR	no more 3 h
Overall dimension, no more, mm:	
Power station (without a tow-bar)	7430 x 3045 x 3240
Container	1470 x 1070 x 1030
Mass of the complete and fuelled power station	10450 kg
Mass of the container with a cabling set	550 kg



Power station is moved by a truck on the basis of KrAZ-214 (KrAZ -255Б) or similar one.
 Power station is transported by railway, water and air.

Delivery set: Power station ЭД80-Т400-2ПК, set SPTA-0 according to the spare parts list, container with a cabling set, maintenance documentation set according to the list.

SE "SPC "Iskra" guarantees: Personnel training, technical support within the radar service life, a full set of maintenance documentation, replenishment of spare parts, repair of assemblies and units.