



STATE ENTERPRISE
«SCIENTIFIC AND
PRODUCTION COMPLEX

«ISKRA»

POWER STATION ED60



Automatic back-up switch-on



Hatch driver



Diesel-generator P100

POWER STATION ED60 IS DESTINED FOR POWER SUPPLY OF SPECIAL PURPOSE PRODUCTS BY THREE-PHASE VOLTAGE OF 230V, 400HZ

MAIN TECHNICAL CHARACTERISTICS

Parameter designation		Standard
Supply mains	Voltage: three phase,V	380 ±10%
	Frequency, Hz	50 ±1,5%
	Consumption current, A, max	165
Output parameters of power station	Current	Three-phase
	Rated power, kW	60
	Rated voltage, V	230 ± 2%
	Current frequency, Hz	400 ⁺² _{-.4} %
	Rated current, A, max	188
Fuel consumption of generator at rated power, l/h	Power factor	0,8
		23,8
Continuous operation	Without refueling	min 8
	With automatic refueling one generator, h	min 72
Automation degree		2
Operation conditions	Ambient temperature	from -20C up to +50C
	Relative humidity (at + 35) up to	98 %
	Height above sea level up to	3000 m;
	Dustiness of air up to	0,5 gm ³

OPERATION PRINCIPLE OF POWER STATION CONCLUDED IN CONVERSION OF THREE-PHASE ELECTRIC POWER OF 380V AND FREQUENCY 50 HZ PRODUCED BY THE GENERATOR OR FROM AN EXTERNAL SOURCE IN TO THREE-PHASE ELECTRIC POWER OF 220 V AND FREQUENCY 400 HZ WITH USING CONVERTER FC (FREQUENCY CONVERTER) ПЧ-60Б1.1.

CONSTRUCTION FEATURES

POWER STATION IS BUILT AROUND THE BODY MOUNTED IN THE TRAILER

- There are two compartments inside the body. In each compartment are placed diesel generator P 100 along axis of the body for operation under severe conditions.
- Effective automatic and control system.
- At low temperatures the fan heater automatically supports heating-up of diesel-generator from storage batteries and inside temperature.
- Automatic hatch opening.
- Automatic system of fire alarm.

CONTROL SYSTEM PROVIDES:

- Control for operation of diesel-generator and auxiliaries.
- Disaster protection and light alarm on the control cabinet; light alarm and chime on the remote control post.
- Mode of illumination and black-out of body (when the door and hatches open).



DD control panel



Frequency Converter



Control Cabinet



Remote control post



Heater

POWER STATION CONTROL SYSTEM STIPULATES THE FOLLOWING CONTROLS

- Local control
- Semi-automatic control
- Automatic control in mode "Stand-by"
- Remote control from the remote control post



Power station working life	25 000 hours min
Total life time	20 years
MTBF at 60 kW	1000 hours min
MTTR (by two persons)	3 hours max
Power station overall dimensions	(9040x2870x3300) mm
Curb weight	10880 kg

Power station can be towed by a truck KrAZ-214 (KrAZ-255B) or by any similar one.
Power station can be transported by rail, sea and air.

Delivery complete set: power station ED60-T230П 2PK, SPTA-O according to SPTA list, cable box.