

## 5.05. HIGH-VOLTAGE POWER SUPPLY PS-EPZ 60/0.25 (ДЖ-ЕПЗ 60/0.25)

It is intended for power supply of electronic gun in vacuum electron-beam welding units in the modes of pulse or continuous consumption of load current.

### *Construction features of PS-EPZ 60/0.25 (ДЖ-ЕПЗ 60/0.25):*

- high-frequency transformation of electrical energy using IGBT;
- latitude pulse control;
- microprocessor control system;
- control of the experimental power supply from the remote operator's console;
- uniform power consumption from the supply mains;
- low energy released by the source in the load during breakdowns;
- a system of high-speed current blockings, which protect PS-EPZ 60/0.25 (ДЖ-ЕПЗ 60/0.25) from overloads and failures;
- automatic shutdown in the event of a breakdown in the load with subsequent restarting.



### *Main technical specifications:*

<i>Output parameters</i>	
Rated output voltage (pole "plus" is grounded in the load)	60 kV
Rated load current	0.25 A
Rated output power	15 kW
The change of output voltage under the influence of external factors, ≤	± 1% from the rated value
Time of transient process at the pulse load, no more than	1 ms
Output voltage ripple	< 1%
<i>Input parameters</i>	
Supply voltage (three-phase, variable)	380 V ± 10%
Supply frequency	( 50 ± 0,4) Hz
Weight, including electrical insulation fluid	230 kg
Overall dimensions (LxHxW)	1100x1035x650 mm
Power supply turn-on time, no more than	5 s