



The device BVS 075 024 (starting cart for planes) is designed to power supply board mains or start the engines of planes when they are on the ground in the hangar or at the airport. Nominal output voltage of the device is 28 V DC, maximum current is 1200 A (for 20 s).

## BASIC INFORMATION

The batteries with output nominal voltage 28 V are the source of energy sufficient for starting the plane engines.

The battery charging and power supply of the board mains from 230 V AC mains are provided by charger DN 342R. The device is equipped as standard with extension cord with length of 20 meters. The connection between the device and the plane is provided through removable cable with length of 5 meters. The cable has two power conductors 70 mm<sup>2</sup> which are used for the transfer of electrical energy to the plane and one signal wire 2,5 mm<sup>2</sup>. The end of the cables that connects to the plane has standardized connector.

The construction of the device allows operating personnel to move it along relatively flat area of the airport.

## CONSTRUCTION PARAMETERS

Dimensions (W x H x D) :	612 x 760 x 550 mm
Weight :	120 kg
Protection :	IP 23
Cooling :	forced with regulation according to load / temperature

## AMBIENT CONDITIONS

Operating temperature :	-20 °C to +40 °C
Storage temperature :	-25 °C to +80 °C
Operating relative humidity :	max. 80%, non-condensing
Storage relative humidity :	max. 90%
Vibration resistance :	max. 1g at frequency 10÷100 Hz (1g = 9,81m/s <sup>2</sup> )
Dust environment :	content of dust particles in the air < 75 mg/m <sup>3</sup>
Chemical effects :	nonaggressive
Altitude :	< 2000 m

## ELECTRICAL PARAMETERS

### AC input

Nominal input voltage	230 V
Input voltage range	195 ÷ 265 V full power 170 ÷ 195 V decreased power
Power factor	> 0.95
Frequency	40 ÷ 60 Hz
Efficiency	> 80%

### DC output

Nominal output voltage	24 V
Output voltage range	0 ÷ 30 V
Output voltage stability	+/- 1.5 %
Maximum output current	80 A
DC output protection	circuit breaker 100 A/C

### Battery

Type	lead-acid
Nominal battery voltage	28 V
Battery capacity	170 Ah
Starting current	1000 A
Output cables	each pole 95 mm <sup>2</sup> , connector end
Max. current of control signal	8 A

### Indication

Visual	presence of control signal battery voltage
Acoustic	battery voltage drop

### Control

Mains input	mains switch
Control signal	button

### Communication - charger

External system interface	RS 232
Digital outputs - potential free	2

### Protections - charger

Overload on output, AC input	electronic + circuit breaker
Overheating, over/undervoltage on input	electronic