

RECTIFIER UNIT

EAR-300

EAR-300 rectifier is a solid state, compact and light solution for powering on-board electrical equipment of aircrafts and helicopters with 28,5 V DC and rated current 300 A continuously. The unit is extremely durable and relatively lightweight, making it easy to use. Despite its small size, the unit handles high overloads, which allows starting any aircraft engine. The rectifier has both static and mobile execution, so as custom choice of input and output plugs and cables. In addition, the highly durable chassis of unit's mobile version are equipped with mechanical braking system. As a conclusion, the ownership costs are significantly low, as the required maintenance is minimal.



MAIN TECHNICAL PARAMETERS

EAR-300 Rectifier unit

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General

- ✦ Ambient operation temperature: -20 to +55°C
- ✦ Humidity: 10 – 100%
- ✦ Noise level: <65dB(A)@1m
- ✦ Warranty: 24 months
- ✦ Protection class: IP 55
- ✦ Execution: solid state
- ✦ Weight, kg: 60
- ✦ Dimensions, LxWxH, mm: 620 x 550 x 390

Input parameters

- ✦ Input voltage, V: 3x400
- ✦ Input frequency, Hz: 50/60
- ✦ Inrush current: soft start
- ✦ Input cable length, m: 10
- ✦ Input plug: 32A

Protection

- ✦ Overheating
- ✦ Over/low voltage
- ✦ Overload
- ✦ Short circuit
- ✦ Emergency stop

Control panel

Luminescent display (voltage, current), regulation buttons, MAIN indicator, emergency stop buttons

Output parameters

- ✦ Number of outputs: 1
- ✦ Current (continuous), A: 300
- ✦ Rated output voltage, V: 28,5
- ✦ Voltage stabilization, V: 0,5
- ✦ Line drop compensation: automatic
- ✦ Interlock (bypass): ON/OFF function
- ✦ Output cable length, m: 10
- ✦ Error log storage: up to 100 events
- ✦ Overload rating: 600 A – 30 sec.;
1200 A – 10 sec.;
1600 A – 2 sec.

Documentation

- ✦ User + Service Manual
- ✦ Spare Parts Catalogue
- ✦ Passport
- ✦ Warranty Certificate

Options

- ✦ Anti-condensation heater with thermostat
- ✦ Range of input voltages: 3 x 220 / 3 x 440 / 3 x 460 / 3 x 480 / other
- ✦ Custom input and output cable length
- ✦ Custom input and output plugs

Norms, standards and directives that we follow:

ISO6858, ISO1540, BS 2G 219, MIL-STD-704F, EN 62040-1, EN 61000-6-4, EN 61000-6-25, EN61558-2-6, EN 2282, EN 1915-1, SAEARP 50 15, IEC 60721, IEC 60529, DFS400, GOST 54073-2010, ISO 9001:2008, ISO 14001:2004, OHSAS 18001, 2014/35/EU, 2004/108/EC