FR-400/28 Series

COMBINED UNITS



The combined supply units of FR-400/28 series are designed to power on-board systems of aircraft and helicopters during ground handling at airports, shop floors, and training centers.

DC output: 28,5 V

• AC output: **400 Hz**

All channels can be adjusted and operated simultaneously.

Voltage drop compensation is individually set for each output.

DC Modes

- Dual-channel: 28 /48 /56 V
- Single-channel: 28,5 V

Totally customizable

- Trolley
- Color
- Cable length
- Technical parameters

AC + DC



- Independent AC and DC outputs
- Possibility of simultaneous work of all channels

Ventilation cooling system



- Located on top
- Low noise fans
- Less time for maintenance

Specilal outputs



- Special 400 Hz 36 V output
- Ability to work on a 28 V/ 48 V/ 56 V mode
- 50/60 Hz sockets

GENERAL

Climatic execution -55 °C to +55 °C Humidity up to 100 % Noise level <65 dB(A)@1 m Execution fixed, mobile Protection class IP 55 Country of origin Estonia, EU

INPUT PARAMETERS

Input voltage, V 3×220/ 3×440/ 3×460 3×480 ± 10 %, N, PE

Input frequency, Hz 50/60 ± 5 % Inrush current soft start Input plug, A up to 400

OUTPUT PARAMETERS

Number of outputs up to 5

Power factor >0,8 at 100 % load

Coefficient of efficiency, % 97

Line drop compensation automatic

Error log storage up to 10 000 events Interlock ON/ OFF/ civil/ military

AC OUTPUT PARAMETERS

Total output power, kVA up to 360 115/200 ± 2 Rated output voltage, VAC 0-100 Range of load changes, % 104-120 Range of voltage regulation, V Range of frequency regulation, Hz 360-420

Total harmonic distortion,

2 not worse, %

400 ± 0,01 Output frequency, Hz

Coefficient of amplitude

modulation of the output voltage, % not more than 1,5 Overload 600 sec — 125 %

60 sec - 150 % 30 sec — 200 % 10 sec — 300 %

1 sec — 400 %

DC OUTPUT PARAMETERS

Current (continuous)

of each output, A up to 1600 28,5

Rated output voltage, VDC

Output voltage stabilization

accuracy, VDC 0,5

Range of voltage regulation, V up to 33 Output voltage ripple factor, % maximum 2 Overload rating up to 2500 A

PROTECTION (ISO 6858/ MIL-STD-704F)

Over / under voltage at input/output

Overload

Over / under frequency

Over temperature

Short circuit at input/output

Control voltage error

Leakage current supervision

No break power transfer

OPTIONAL

Anti-condensation heating with thermostat dublicates the main Remote control

control panel

Additional outputs 36 V, up to 30 kVA User interfaces RS485 TCP/ IP;

Modbus; Others

Measuring devices type analog or digital 28/48/56

Output mode, V

Monitoring of energy consumption

Control panel lighting

EUR1 Certificate

RFID access system

Climatic execution

Remote control

Voice signalization

Control panel backlight

Beacon light

Monitoring of energy consumption

