

AIRPORT EQUIPMENT SERVICES PTE. LTD.

41 Kallang Pudding Road, #03-10 Golden Wheel Building, Singapore 349316 Phone: (65) 65421160 Fax: (65) 65421160 Email: aessg@singnet.com.sg Website: www.aessg.com

(Business Registration No: 199400661M)

AC+DC COMBINED UNIT

EACR SERIES

The combined power supply units EACR series are intended for power supply of the on-board electrical equipment of aircrafts and helicopters during pre-flight preparation at airports, the shop floors of aircraft industry enterprises and complex training simulators in aviation training centers.

These power supply units have two types of independent outputs: one with direct current of 28.5 V and second one with alternating current of 400 Hz. All channels can be independently regulated and used simultaneously. The voltage compensation system is made separately for each output.

DC outputs can be operated both as two-channel with 28/56 VDC function.









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MAIN TECHNICAL PARAMETERS

EACR AC+DC Combined unit

Performance

√ Humidity: 10 – 100%

√ Noise level: < 65dB(A)@ ım
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√ Warranty: 24 months

Input Parameter

√ Input voltages, V: 3x400 ± 10% N, PE

✓ Input frequency, Hz: 50/60 ± 5%

✓ Inrush current: Soft start

Output parameters

Number of outputs: 1 to 5

Power factor: > 0.8 at 100% load

√ Line drop compensation: automatic

AC Output parameters

Rated summary output power, kVA: 2, 30, 45, 60, 90, 120, 140, 180, 250

Range of load changes, %: o – 100

₹ Total harmonic distortion, not worse, %: 3

Output frequency, Hz: 400 ± 0.001

Coefficient of amplitude modulation of the output voltage, %, not more: 1.5

Overload rating:

60 min - 110% 10 min - 125% 2 min - 150% 20 sec - 200% 2 sec - 300%

DC Output parameters

Current (continuous) of each output, A Rated: 100, 400, 600, 800.

Rated output voltage, VDC: 28.5

Output voltage stabilization accuracy, VDC: 0.5

Output voltage ripple factor, %: maximum 2

Overload rating:

2 Inom - 30 sec 3 Inom - 10 sec

4 Inom - 2 sec

Protection

Over / under voltage at output

○ Overload

Short circuit at output

✓ Leakage current supervision

√ No break power transfer

○ Over/under frequency

Control panel

Luminescent display, main lamp, emergency stop.

Documentation

√ User + service manual

Passport

Optional

Range of voltage regulation, V: ± 10%

Range of frequency regulation, Hz: 360 - 440

✓ Anti – condensation heating: +

Remote control: control panel, main lamp, emergency stop

Additional output: 220V, 16A (1Ph+N+PE) + residual – current device

√ User interfaces: RS₄85 / 232 ; TCP/IP; Modbus

Measuring devices type: analog or digital

Monitoring of energy consumption

■ Beacon light

√ Voice signalization

Control panel backlight

♥ EUR 1 Certificate

RFID access system

Storing of fault history: up to 100 events

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