

## **Product DataSheet:**

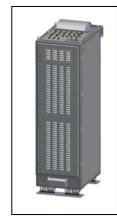
## **PSD RU – Power Supply & Distribution Rack Unit**

## **Description:**

The Power & Distribution Rack Unit is rugged military grade housing 19" standard system able to supply, cooling and interfacing up to twelve internal unit.

Fully qualified MIL-STD-810G and MIL-STD-461F the PSD RU is suitable for applications that require clean and reliable ac power in military environment (Naval Sheltered).

REACH, ROHS and CE marking compliance.



## **Key Specifications:**

- Rugged military grade rack unit (standard 19")
- 3ph 115Vac 50/60Hz input voltage (STANAG 1008 Ed.9 compliance)
- Twelve single phase 115Vac 60Hz internal power supplies (internal frequency converter) decoupled and stabilized respect the input power supply
- Two DC internal power supplies also available
- Programmable thresholds for inrush time and over current for each AC and DC internal power supplies
- External interface with 98 LVDS and 35 LVCMOS signals by D38999 connectors
- Operative temperature range [-5 ÷ +55]°C with warning and alarm programmable thresholds
- Telescopic guides for customer units installation with integrated cables handling system
- Isolation system for mechanical stress at the base and on the upper-rear side of rack
- Fully qualified MIL-STD-810G and MIL-STD-461F
- REACH, ROHS and CE marking compliance
- Dimensions (h x l x d) 2150x600x800mm
- Weight 270 kg



**INPUT POWER** 

105÷125Vrms 50 or 60Hz 25Arms max 5KVA max

**INPUT TRANSIENT** 

<2sec to 89Vrms or 141Vrms

**INPUT HARMONIC DISTORSION** 

THD < 7,5% SHD < 5%

**INPUT PROTECTION** 

Varistors Breaker

**ISOLATION** 

1500Vdc input to chassis 1000Vdc internal power supplies 200Vdc signal to chassis

**STANDARD** 

Compliant to STANAG 1008 ed.9

**EMI** 

Compliant to MIL-STD-461F: CE101, CE102, RE101, RE102 CS101, CS106, CS114, CS116, RS101, RS103

**INPUT/OUTPUT SIGNALS** 

98 lines LVDS
35 lines LVCMOS
1 line Ethernet
1 line open/close contact
3 line 24Vdc alarm signals
9 line 3GHz RF signals

**INTERNAL HOUSING** 

Twelve 19" standard units (25U)
One non standard unit

**INTERNAL POWER SUPPLY** 

Twelve 115Vrms 60Hz 10Arms One 12Vdc 150W One 24Vdc 150W

**INTERNAL POWER DISSIPATION** 

<2500W to have Ti<40°C

**OPERATING TEMPERATURE** 

 $[-5 \div +55]$  °C at full power

**COOLING** 

Forced air by FAN UNIT

**ENVIRONMENT PROTECTION** 

Full ruggedizing Conformal coating

**SHOCK & VIBRATION** 

MIL-STD-810G: Half sine 30g 6ms over three axis 4÷14Hz 0,25mm 14÷100Hz 0,2g

**HUMIDITY** 

MIL-STD-810G method 507.6

**SALT FOG** 

MIL-STD-810G method 509.6

**MTBF** 

16.595h MIL-217F Naval Sheltered at 20°C **INDICATORS** 

Power presence System status Internal power supply status

**CONNECTOR** 

D38999 standard 3xTNC type, 9xN type for RF signal

**DIMENSIONS** (h x l x d)

2150x600x800mm

WEIGHT

270 Kg

**COMPLIANCE** 

REACH, ROHS and CE marking