ARCHIMEDE *TYPE*

MAY 30 – 2006 second edition

AMATEUR RADIO RF POWER MOSFET AMPLIFIER

1000MAC144 1 kW out

- **Reduced Dimensions**
- **High Efficiency**
- **High Ventilation**
- **Oversize Switching Power Supply**
- **Low Weight**
- **Best Quality**

GENERAL CHARACTERISTICS

Operating Band	**143 ÷ 147 MHz**
Output Power (minimum)	**1000 Watt**
Output Connector	**N female type**
Driving power	**12 ÷ 18 Watt**
Coax Relay Tohtsu	**Mod. CX140D input – CX600NC output**
Input connector	**N female type**
Input - Output impedance	**50 OHM**
Input v.s.w.r.	**1,3:1 max**
Spurious and harmonic emission	**Better than what CCIR and FCC req.**
Mosfet efficiency	**≥ 68 %**
RF unit cooling	**4 h.p. Axial fans in a redundant system**
RF devices heat sink temperature delta	**22°C to 28°C**
Power supply cooling (optional)	**2 axial fan**
Ambient working temperature	**0 to 45°C**
Relative humidity	**Up to 90% non condensing**
Altitude	**≤ 4500 m**
Protections	**Non-stop reducing power type**
AC power	**185÷260 VAC 50-60Hz**
AC power consumption	**Depending on the model**
Rack dimensions	**19" 2U 530 mm depth**
Weight	**17 Kg**

*** The above data is purely indicative; we may vary them without any warning**

The p.a. **1000MAC144** are complete machines, “ready to go”, the working class is “AB”, it is extremely linear on SSB. Compactness, “ready to go”, P.A. are on the vanguard on Ham’s station; the reduce weigth to exalt use on DXpedition in WSJT, MS or EME.
The P.A. machines are completed with: PCBoard RF power, power supply VDC, switching PCboard and coaxial relays, protection PCBoard (R.O.S., temperature, extra power input), low pass filter and directional coupler with instrument to read power out.

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