

# ISM

## TDE1K0-HF-DW



### Characteristics

**TDE1K0-HF-DW** is a high-power RF amplifier specifically designed for ISM applications in the frequency band 1.5 – 30 MHz.

**TDE1K0-HF-DW** is based on brand-new solid-state devices which ensure the highest power level on the market. The amplifier works in AB class.

### MAIN FEATURES

- High Ruggedness
- Touch-screen display
- Self-protected against:
  - i. Abnormal temperature
  - ii. Abnormal reflected power
  - iii. Abnormal current absorption
  - iv. Overdrive
- Telemetry includes:
  - i. Forward and Reflected RF power
  - ii. DC Voltage
  - iii. Temperature
  - iv. Alarm Status

### Performance Summary

Parameter	Min.	Typ.	Max.	Units	Note
Power Out @ 3dB <sub>c</sub>	900	1000		W	
Frequency Range	1.5		30	MHz	
AC Voltage Supply	180	230	264	V <sub>ac</sub>	
Current Absorption @ 1000W @ 230V <sub>ac</sub>			15	A	
Power Gain@ 3dB <sub>c</sub>		60		dB	
Gain Flatness @ 3 dB <sub>c</sub>		± 3		dB	
Harmonics Level			-10	dB <sub>c</sub>	
Nominal Power In		1		mW	
Input Return Loss		-15		dB	
Output Return Loss		-15		dB	

### Notes

### AC and RF Connectors



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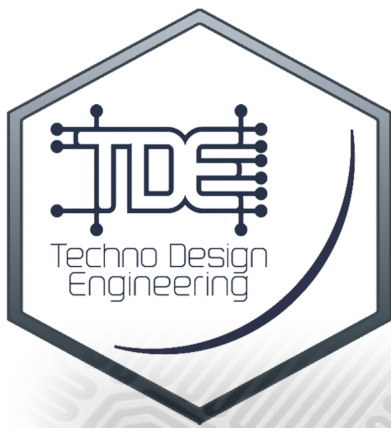
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(\* On request, the amplifier might be equipped by :

- **WEB Interface**
- **SNMP**
- **RF Out:** DIN 7/16 female
- **RF In:** SMA female
- **FWD\_Probe:** SMA female (optional)
- **RFL\_Probe:** SMA female (optional)
- **AC In:** Pluggable Terminal Blocks 5 positions 7.62 mm

## General Specifications

- **Dimensions (LxWxH):** 483x613x441 mm
- **Weight:** 20 Kg
- **Ambient Temperature:** 0 ~ +45 °C
- **Storage Temperature:** -20 ~ +85 °C
- **Relative Humidity:** up to 95% (not condensing)
- **Operating Altitude:** up to 2000 meters above sea level
- **Cooling:** Forced air with integral blowers (air intake from front, air exhaust at rear)

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