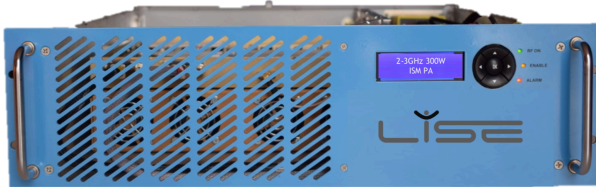


## ISM SOLID STATE HIGH POWER AMPLIFIER.

The HPA Amplifier operates in S-Band (Freq. 2,856GHz or 2,998 GHz) with a peak power level output up to 300 Watt. It works in AB class using the LDMOS devices technology. All technical characteristics and features, together with a preliminary block diagram, are below described in the table. The HPA is enclosed in 19 inch standard frame, 2HE high, and 500mm depth.



The image is purely indicative, just to show the outer layout of the HPA

### 1.0 Technical Specification

Parameters	Freq. 2,856 GHz	Freq. 2,998 GHz	Unit	Note
Frequency Range	2856 ± 3	2998 ± 3	MHz	
Output Power	270 Peak	270 Peak	Watt	
	53,80 Peak	54,77	dBm	
Pulse Rise/Fall Time	0.15 Max	0.15 Max	µsec	
Pulse Drop	0,5 Max	0,5 Max	dB	
Load VSWR	10:1 Max	10:1 Max		Output Circulator
Duty Factor	10% Max	10% Max		
Pulse Width	100 Max	100 Max	µ sec	
RF Connector	N Female	N Female		Front Panel
Pulse Trigger	BNC Female	BNC Female		Rear Panel
Interface Conn.	RJ45	RJ45		
AC Input	110 or 240	Vac		Mono-phase, 50/60 Hz
AC Pwr Input	AC Plug	AC Plug		
Operating Temperature	0 to 50	0 to 50	°C	
Storage Temperature	-40 to + 80	-40 to + 80	°C	
Environmental				MIL-STD 810F

#### Available Options

RS422 or alternative Interfaces
Internal Pulse Trigger
Pulse to Pulse Width Control

#### Features:

- Internal Frequency Synthesizer
- AFC Control
- 17dB Min Output Power Control
- On board Time Meters
- Front Panel Power/Frequency Meter
- High Reliability

#### Control Interface: (Front Panel Available)

- Ethernet
- Display Power/Freq.
- View IP Address
- Time and Date
- Unit ID, Mode Status

## 2.0 Block Diagram

