

# MTPA 6 ... 18 GHz

## Wideband GaN Amplifiers



### STANDARD MODELS

Model	Frequency Range GHz	Output Power	Input Power	Small Signal Gain	Gain Flatness	Gain Adj	Input VSWR
		min / max / typ W	max dBm	min / typ dB	typ / max dB	max dB	typ / max
MTPA0618-5	6 ... 18	5/10/8	0	38/40	±3/±4	20	1.5/2
MTPA0618-10	6 ... 18	10/14/12	5	38/43	±3/±4	20	1.5/2
MTPA0618-20	6 ... 18	20/25/22	5	45/49	±3/±4	20	1.5/2
MTPA 0618-50	6 ... 18	50/55/52	3	50/54	±3/±4	20	1.5/2
MTPA 0618-100	6 ... 18	100/110/106	5	50/55	±3.5/±5	20	1.5/2
MTPA 0618-200	6 ... 18	200/220/210	5	53/56	±3.5/±5	20	1.5/2
MTPA 0618-250	6 ... 18	250/260/252	5	54/58	±3.5/±5	20	1.5/2
MTPA 0618-300	6 ... 18	300/320/310	0	55/60	±3.5/±5	20	1.5/2
MTPA 0618-500	6 ... 18	500/550/520	0	60/63	±4/±5.5	20	1.5/2
Model	Output VSWR typ / max	2nd Harmonic Power @ Pout typ / max dBc	3rd Harmonic Power@ Pout max dBc	Spur @ Pout typ / max dBc	IM3 typ / max dBc	Noise Floor typ / max dBm/MHz	Stability yes / no
MTPA0618-5	2.5/3.5	-15/-10	-10	-65/-60	20/17	-45/-40	Y
MTPA0618-10	2.5/3.5	-15/-10	-10	-65/-60	20/15	-45/-40	Y
MTPA0618-20	2.5/3.5	-15/-10	-10	-65/-60	20/15	-45/-40	Y
MTPA 0618-50	2.5/3.0	-15/-8	-10	-65/-60	20/15	-45/-40	Y
MTPA0618-100	2.5/3.5	-15/-10	-10	-65/-60	20/15	-45/-40	Y
MTPA0618-200	2.5/3.5	-15/-10	-10	-65/-60	20/15	-40/-35	Y
MTPA0618-250	2.5/3.5	-15/-10	-10	-65/-60	20/15	-40/-35	Y
MTPA0618-300	2.5/3.5	-15/-10	-10	-65/-60	20/15	-25/-20	Y
MTPA 0618-500	2.5/3.5	-15/-10	-10	-65/-60	20/15	-23/-20	Y
Model	VSWR Load	Line Power VA	Dimensions (H, D) 19"-System	Weight typ kg			
MTPA0618-5	3	100	2HU,19"	6.5			
MTPA0618-10	3	100	2HU,19"	6.5			
MTPA0618-20	3	300	2HU,19"	6.5			
MTPA 0618-50	3	600	3 HU,19"	16.5			
MTPA 0618-100	3	1500	3 HU,19"	18			
MTPA 0618-200	3	2000	5 HU,19"	30			
MTPA 0618-250	3	3300	7 HU,19"	50			
MTPA 0618-300	3	3600	8 HU,21"	60			
MTPA 0618-500	3	5000	12 HU,21"	100			

1 HU = 44.45 mm

### STANDARD SPECIFICATIONS

Overdrive Protection:	up to +10 dBm for no damage
Input Impedance:	50 Ohm nominal
Output Impedance:	50 Ohm nominal
Noise Figure:	20 dB max.
Class of Operation:	AB-linear

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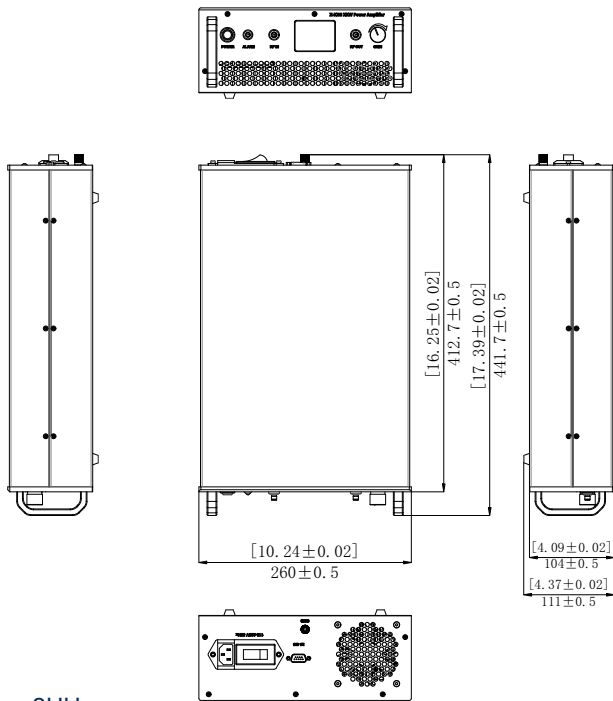
Relative Humidity: up to 95% (non-condensing)  
 Operating Altitude: up to 2000 m above sea level  
 Vibration and Shock: normal laboratory environment  
 Cooling: forced air with integral blower  
 air intake and exhaust at rear

### GENERAL

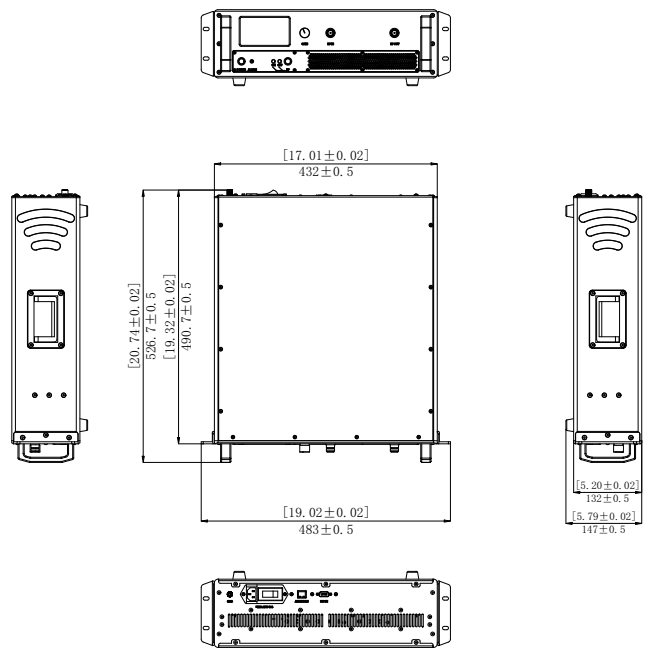
RF Input: N-f; standard on front panel  
 RF Output: N-f; standard on front panel  
 WRD650 standard on front panel  
 Mains Supply: <1500 VA 200 ... 240 V AC  
 Mains Supply: <4000 VA 380 V AC  
 Power Meter: via status display  
 Elapsed Time Meter: via status display  
 Ambient Temperature: 0 ... +45 °C  
 Storage Temperature: -20 ... +65 °C

### OPTIONS

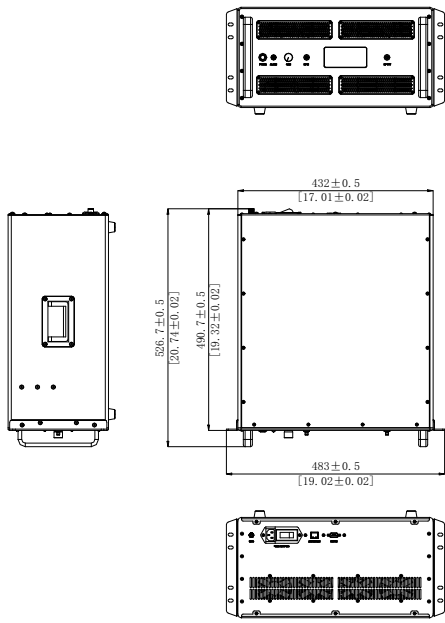
- A) Forward & Reverse Monitor
- B) External Dual Directional Coupler
- C) IEEE-488.2 GPIB Remote Control
- G) Output isolation
- L) LAN Remote control
- M) 115 V AC / 47 ... 63 Hz
- N) Harmonic Filter
- R) RS-232C Remote Control
- U) USB Remote Control



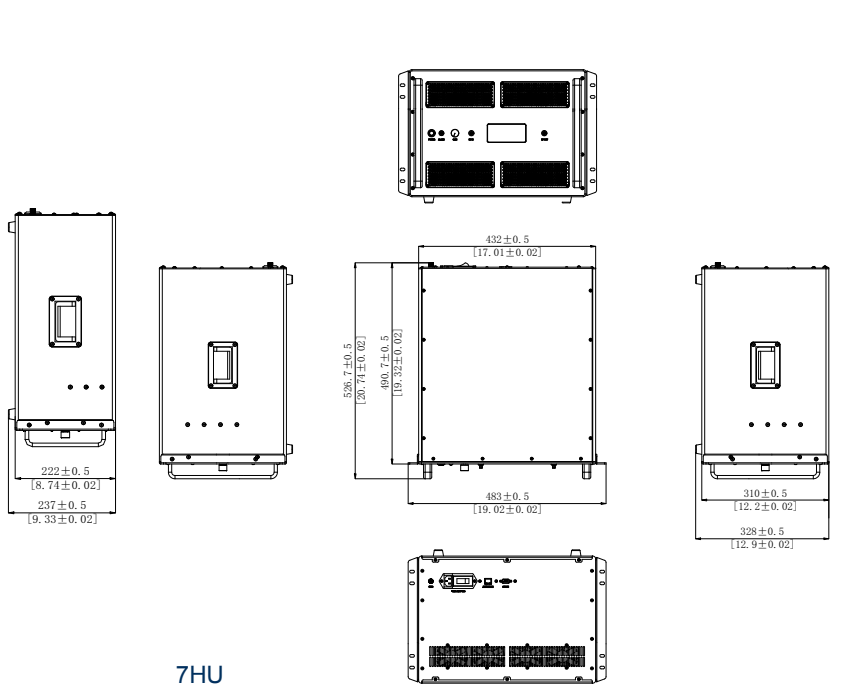
2HU



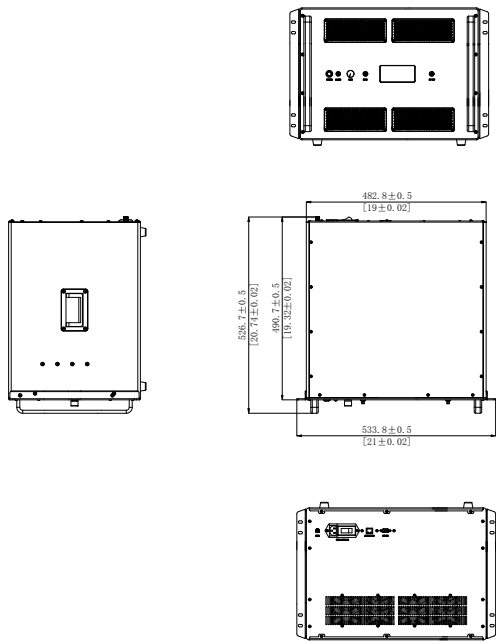
3HU



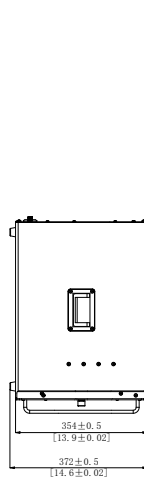
5HU



7HU



8HU



6-18GHz 100W test data

