

UX 55

UX Range: 2 GHz - 6 GHz / 55 W CW



Prana UX 55

- Class A solid state
- Broadband (instantaneous single band): 2 GHz – 6 GHz
- Typical output power : 55 W CW
- Linear output power (1 dB compression) guaranteed with harmonics <-20 dBc:
 - P1dB > 40 W and H < -20 dBc up to 4 GHz and
 - P1dB > 35 W and H < -20 dBc from 4 GHz to 6 GHz
- Air cooling: self contained fans
- Can operate in full mismatch conditions without damage
- Upgradable to UX 100 possible (7U)
- Reliable, efficient and robust
- 19" Rack
- 3 years standard warranty

Maintenance

- Amplifier designed for minimal maintenance
 - Easy access to all parts
 - Modular design
 - Repairs with minimum adjustments
- Rapid diagnostic
- Minimal downtime
- Contract for preventive and corrective maintenance available

Applications

- EMC tests
- RF tests and instrumentation
- Radiocommunication
- Measurement and research laboratories

Versions

- UX 55 S : standard amplifier
- UX 55 D amplifier with:
 - Display
 - Digital control
 - IEEE 488 GPIB Communication
- UX 55 SC : UX 55 S with
 - Integrated bidirectional coupler
- UX 55 DC : UX 55 D with :
 - Integrated bidirectional coupler
 - display of instantaneous power

UX Range

- UX 15 => 15 W CW
- UX 30 => 30 W CW
- UX 55 => 55 W CW
- UX 100 => 100 W CW
- UX 150 => 150 W CW

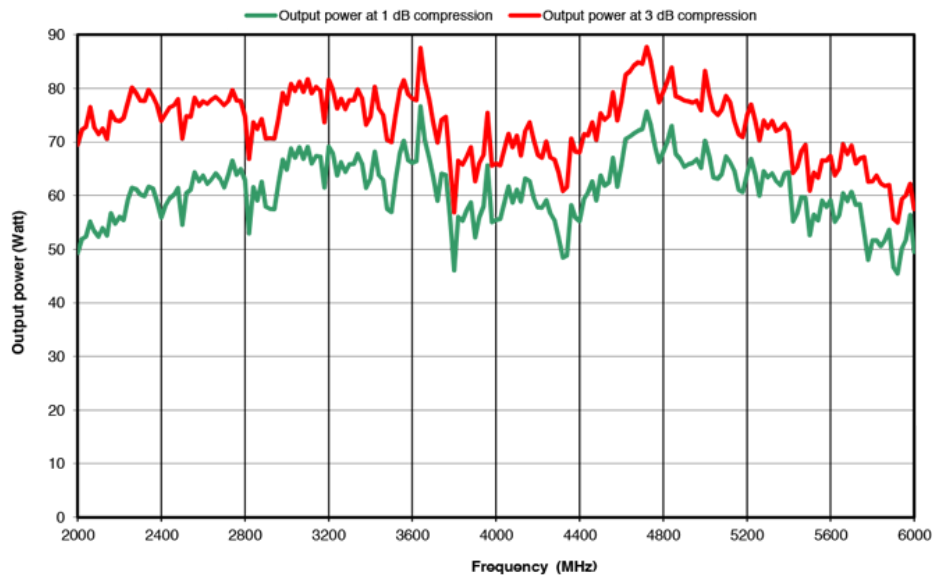
Extra

- External coupler
- Supply and integration inside a cabinet
- RF Power cable
- Switching unit

UX 55

UX Range: 2 GHz - 6 GHz / 55 W CW

UX55 POWER AMPLIFIER 55W / 2 GHz - 6 GHz



Specifications

Frequency bandwidth	2 GHz - 6 GHz
Typical output power	55 W
Power at 3 dB compression	50 W min. up to 4 GHz / 45 W min. from 4 GHz to 6 GHz *
Power at 1 dB compression	40 W min. up to 4 GHz / 35 W min. from 4 GHz to 6 GHz *
Harmonics distortion	H2,H3 < -20 dBc for the output power at 1 dB compression limit
Class type	Class A
Gain	52 dB
Linear power gain flatness	± 5 dB max
Mismatch tolerance	infinite without damage
Input impedance	50 ohms / VSWR: 2:1 max
Output impedance	50 ohms / VSWR: 2:1 max
Input power	+10 dBm max.
RF input connector	Type N fem. (front or rear panel) – other connector type on request
RF output connector	Type N fem. (front or rear panel) – other connector type on request
Ambient operating temperature	0 °C / + 35 °C
Room temperature storage	-20 °C / +70 °C
Cooling	Forced air: 60 l/sec max. (self contained fans)
Power voltage	90-250 VAC, 47-63 Hz, single phase
Rated current	5.4 A at 110 VAC / 2.6 A at 230 VAC
Dimensions	640 x 450 x 178 mm (4U) / 25.2 x 17.7 x 7 in (4U)
Weight	25 kg / 55 lb

UX 55 D version :

Safety interlock	Connector type BNC
Digital control	Transistors, power supplies and internal temperature
Communication interface	IEEE 488
4 lines digital display	Status, faults, (direct and reverse instantaneous power for DC version)

UX 55 SC and UX 55 DC versions :

Integrated bidirectional power coupler	Coupling factor 40 dB typ. (SC version) / 49 dB typ. (DC version)
Power coupling connector	Type N fem. (front or rear panel)
Estimated output power losses due to the coupler	0.5 dB * => take account these power losses for the min output power



Accelonix BV
Luchthavenweg 18b • NL-5657 EB •
Eindhoven • The Netherlands •
T: +31 40 750 1650 • E: info@accelonix.nl

UX5506FEB2014 - Electrical and Mechanical Specifications subject to change without notice.

PRANA R&D - 52 Avenue de la Libération CS 10161 - 19361 MALEMORT Cedex - France
Tel : 33(0)5 55 86 49 40 - Fax : 33(0)5 55 86 49 45



www.prana-rd.com
Made in France