

**FOR IMMEDIATE RELEASE**

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# S Band 120kW Pulse Transmitter *for Radar, Test, and DE*

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Empower RF Systems sets the bar for extreme high-power solid state COTS amplifiers. The Model 2236 is liquid cooled and combines the output of two six foot cabinets with each cabinet combining sixteen 2U power amplifiers. Lower and higher power versions of this amplifier are available due to the scalable, modular design.

Operating from 2800 to 3500MHz, the flexible pulse handling capabilities of this fielded system includes 20% duty cycles with pulse widths from 200ns to 500us and PRFs up to 500kHz.

The 2236 is designed for lower total cost of ownership and higher availability than TWTs and legacy solid state implementations. The transmitter consists of a system controller in a 3U 19-inch rack unit and a total of thirty two 2U 19-inch rack amplifier drawers with each amplifier drawer containing an integrated power supply in its 2U chassis. There is no separate system level power supply. This arrangement eliminates the risk of an RF section or single power supply failure taking the entire amplifier offline. In the event of an RF pallet or PA drawer failure, only a fractional reduction of output power is realized, and the amplifier system remains on air. A single 2U PA drawer and 3U system controller would comprise a spare system. Servicing costs and technician expertise are much lower due to the Fast Field Replaceable (FFR) design. Drawers can be hot swapped (optional) or muted swapped (standard), from the front, in less than 15 minutes. The result is a system with extreme Effective MTBF. Droop correction option is available. Consult factory for the capability of digitally modulated signals on the pulse carrier.



**Learn More About This Product:**

[https://www.empowerrf.com/datasheet/Empower\\_RF\\_Amplifier\\_2236.pdf](https://www.empowerrf.com/datasheet/Empower_RF_Amplifier_2236.pdf)

**Watch FFR (Fast Field Replacement) Video:**

<https://www.empowerrf.com/press/video.php>

**Complete Empower RF Amplifiers lineup:**

[http://www.empowerrf.com/products/rf\\_power\\_amplifier.php](http://www.empowerrf.com/products/rf_power_amplifier.php)

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Empower RF Systems, Inc. Press Materials  
Distribution: Unlimited  
Author Date: Nov 16, 2022

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*Empower RF Systems is the technology leader in high power amplifier solutions for reliable communications, defense, and industrial applications. Our products incorporate the latest semiconductor and power combining technologies and originate from an extensive library of “building block” designs. Solutions range from basic modules to multifunction PA assemblies with embedded real time microprocessor control.*

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