

# New Generator Technology for Military Vehicles

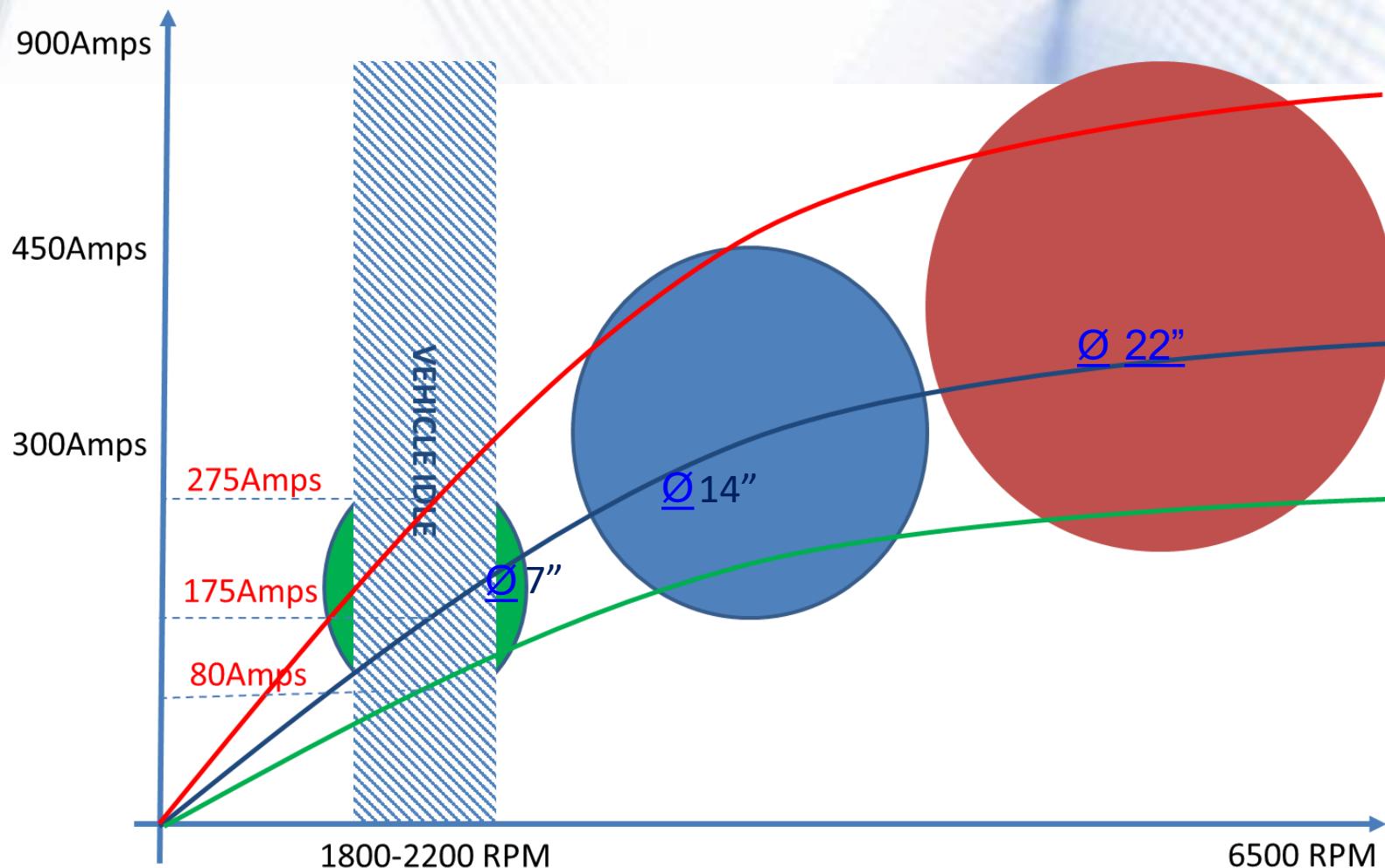
Table 6

Phil Jankura

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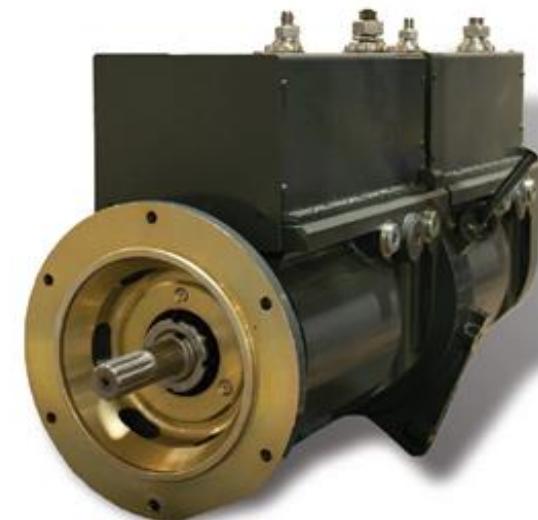
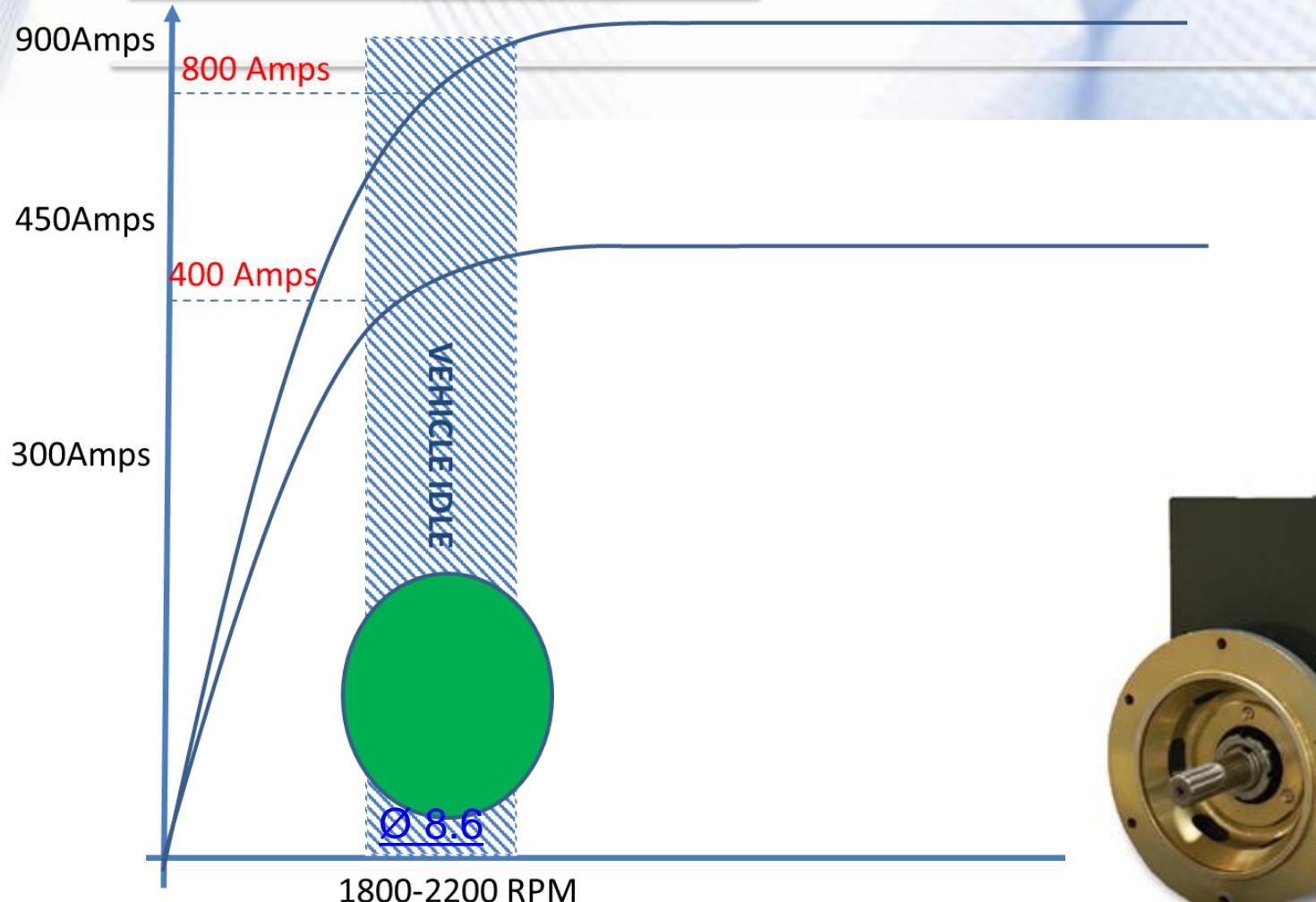
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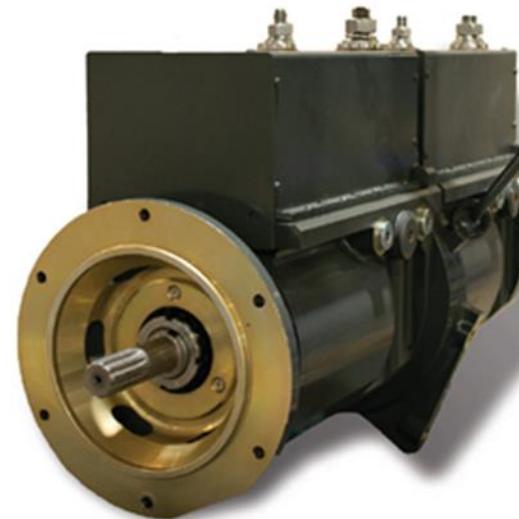
## The Power Curve You Need



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## The Advantages

- Instant Power
- Highest efficiency.
- Compact High Power Density



## The Challenges

- Difficult to regulate
  - Achieved through Milspec's proprietary technology
- High Power Density requires higher capacity cooling
  - Our PMA's are water cooled

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# MIL-STD

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## MIL STD-1275 Voltage Regulation

This standard defines the operating voltage limits and transient voltage characteristic in a 28Volt DC system.

## MIL STD-461 EMI/EMC Requirements

This standard defines the acceptable levels of magnetic & electrical noise.

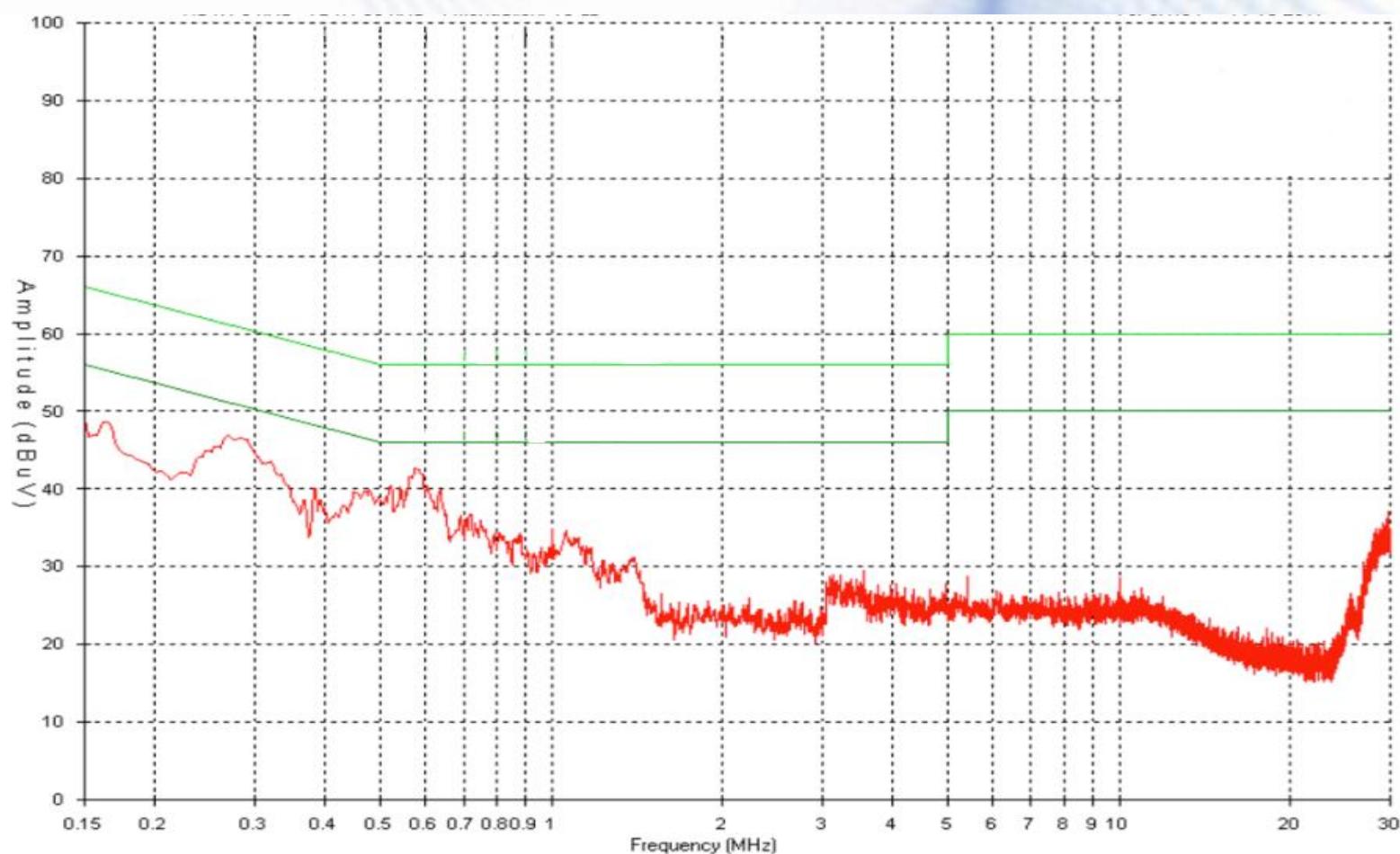
## MIL STD-810 Environmental

This standard is all about making sure that the generator can operate in the hostile environments.

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# MIL-STD-461 EMI/EMC Requirements



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# Tested Technology

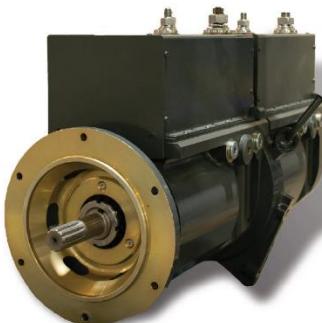
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Distribution Statement A, Distribution Unlimited

# Case Study 1: Lynx IFV-900 Amp Generator

- High output power available at idle 25.7 kW
- PTO drive to eliminate belt drive EMC issues
- Smart control and communications via CAN interface



# Case Study 2: Redback IFV-Auxiliary Power Unit

- Efficient power available in stages  
12.8kW -> 25.7kW ->  
38.6kW
- Maximum current for minimum charge time
- Load balancing within 10%
- EMC Compliant



**“ If you want to access all your vehicle’s electrical systems, while recharging at the maximum rate, then a Milspec PMG will do this, even at vehicle idle”**



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Thankyou