



VINCORION®



SOLUTIONS. TAILORED.



DEFENSE

EPP RADAR^V

VINCORION's large power plant for next generation Air Defense Radars combines the familiar dual genset design with increased capability and output.

EPP radar^V is the premier militarized power plant designed for the latest Lower Tier Air Defense Sensor. Building off the battle-proven and reliable back-to-back genset design, VINCORION more than doubles the output of the PATRIOT EPP III to 400 kW. Each fully independent genset is designed to be plug and play with the existing EPP III vehicle platform and PATRIOT force structure. The intuitive and familiar controls minimize operator

training requirements. Power electronics built into each genset enable backwards compatibility to power the PATRIOT AN/MPQ-53/65.

The EPP radar^V is configured in a standardized container with ISO corners to ease transportability and allow the tactical flexibility for use off the prime mover. VINCORION continues its legacy of reliable power systems with this new power plant that leverages battle-proven thermal management and filtration systems to provide the most durable and capable radar power plant.

TECHNICAL SPECIFICATIONS



Dimensions

L x w x h	7 200 (8200 incl. cable reels) x
All dimensions in millimeter (mm)	2 438 x 2 438

Platform Specifications

Environmental

Operating temperatures	-46 °C to +49 °C
Storage temperatures	-46 °C to +71 °C
Climate zones	A1 to C2
Vibration and shock	According to MIL STD 810 Change 1 (Road, Rail, Air, Ship transportation)
EMC	According to MIL STD 461
Altitude	Up to 2 500 m without derating

Interfaces and Controls

Data interfaces	CAN, Ethernet
Controls	Digital display and push buttons
Fuel	Interface for external fuel tank incl. fuel transfer pump

Module Specifications

EPP radar^V

Output max.	400 kW
Internal combustion engines	Volvo TWD 1643 GE
Fuel	NATO types: F-54, F-64, F-34
Fuel consumption	113 L/h
Cables	4 power cables; 1 control/communication cable
Remote control/ Diagnostic/Prognostic	Via Web interface and fiber optic
Weight	< 16 443 kg

Primary Output

Power	400 kW
Voltage	277 V AC / 480 V AC
Frequency	60 Hz

Secondary Output

Power	150 kW / 187,5 kVA
Voltage	120 V AC / 208 V AC
Frequency	400 Hz

Other specifications and options are available on request.



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