

MEDIUM TACTICAL VEHICLE REPLACEMENT (MTVR)

EXPORTABLE POWER KIT



POWERING THE MISSION: EXPORTABLE POWER FROM A PROVEN PLATFORM

The Medium Tactical Vehicle Replacement (MTVR) has long been trusted by the U.S. Marine Corps for its reliability in the most demanding environments. That same platform now delivers expeditionary power through simple, durable systems designed for minimal maintenance.

Oshkosh Defense developed a field-installable exportable power kit that delivers over 40 kW of electrical power using the MTVR's built-in capacity. The vehicle is engineered with room to grow, enabling it to accept new technologies to meet the evolving demands of the battlefield.

The exportable power kit preserves the MTVR's proven off-road mobility, 60-inch fording capability, and C-130 transportability – without compromising its original mission performance. It integrates commercial off-the-shelf (COTS) components to support long-term sustainment and simplify logistics.

Available now for operational demonstration, this solution supports emerging battlefield power demands while continuing to meet the high expectations Marines require of the MTVR platform.

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An Oshkosh Corporation Company

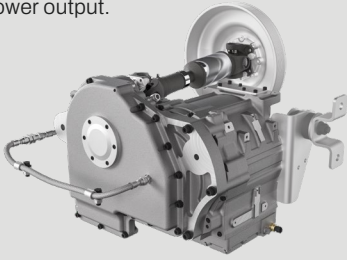
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PERFORMANCE SPECIFICATIONS

Custom Oshkosh gearbox optimizes generator RPM and torque to maximize power output.



Integrated electronics module minimizes packaging and weight while providing easy access and maintainability.



Independent liquid cooling system delivers performance in all environmental conditions.



SYSTEM SPECIFICATIONS

TEMPERATURE



-40°F to 120°F
(-40°C to 49°C)

WEIGHT



770 LB

PAYLOADS



Missile Systems
Counter-UAS
C4ISR
Tactical Microgrid

OUTPUT VOLTAGE

208VAC | **120VAC L-N**
3-PHASE L-L | AT 60Hz

ELECTRICITY ON BATTLEFIELD

208 VAC 3-PHASE
120A PER PHASE

PEAK POWER EXPORT

1,500 RPM

POWER OUTPUT

40+ kW

HIGH VOLTAGE (HV)

600VDC

SCALABLE USING
STACKED INVERTERS

80+ kW

INSTALLATION STEPS - FIELD RETROFITTABLE KIT



1

GENERATOR AND GEARBOX
INSTALLATION ON FRONT
ENGINE CRANKSHAFT



5

COMMISSIONING AND
SOFTWARE UPDATE



2

ROUTING OF ELECTRICAL
CABLES AND COOLING LINES



3

POWERBOX INSTALLATION
BETWEEN CAB AND CARGO AREA



4

COOLING SYSTEM INSTALLATION
ON TOP OF POWER BOX

