

BMG



48V BIDIRECTIONAL MOTOR GENERATOR

Engine power. House power.

Turn power from your main engine into controlled 48V charging for the house bank. Store that energy for onboard loads, including time with the engine off.



MARINE POWER WITH SCOTTY AI V3

More engineering. Less to package.

Integrated inverter

The electric machine and inverter share one compact assembly. Scotty AI provides supervisory control.

Hybrid excitation

Permanent-magnet efficiency combines with adjustable electromagnetic field control.

Hairpin windings

Dual three-phase hairpin windings support high power density in a compact machine.

10kW

Peak output / 20 seconds

7.5kW

Approx. continuous output

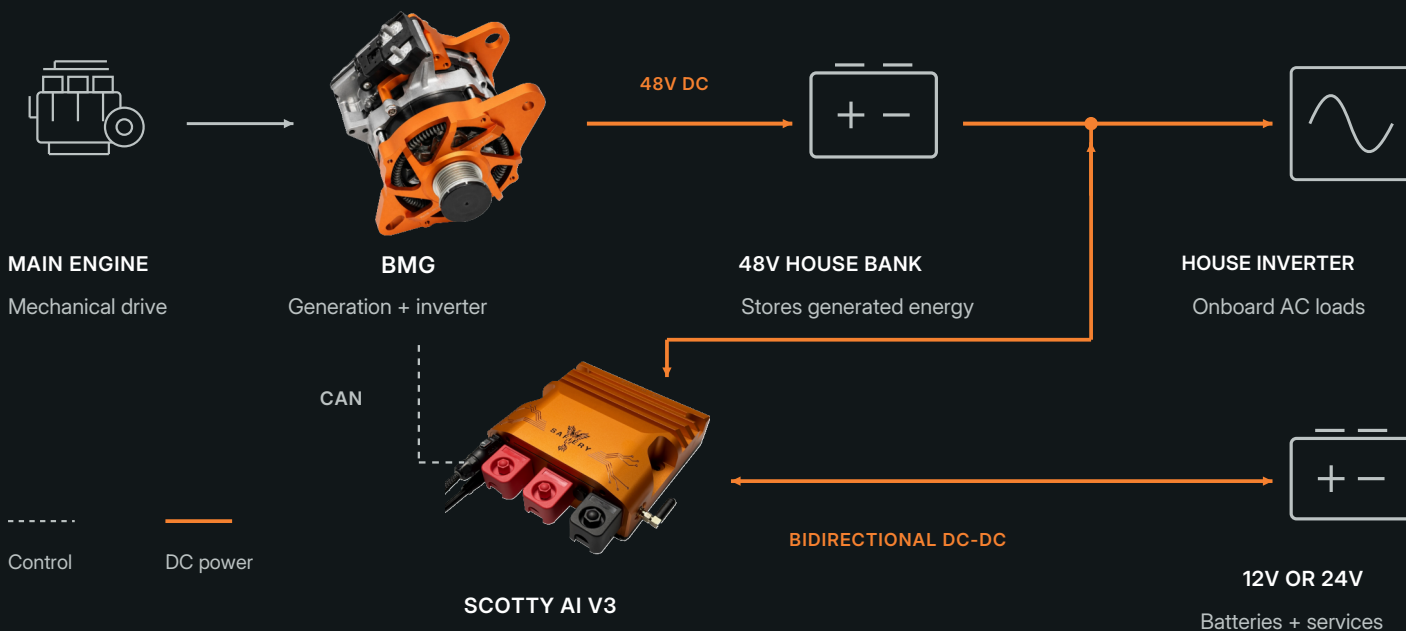
85%

Peak net efficiency

Peak rating: 20 seconds at 105°C and >5,000 BMG rpm. Continuous output is approximate. Output varies with model, installation, speed, temperature and battery acceptance. BMG rpm is not engine rpm. Efficiency is generator + inverter conversion.

Built around 48V. Connected to your boat.

BMG charges the house bank directly. Scotty AI manages charging and connects 48V storage with your 12V or 24V system through integrated bidirectional DC-DC conversion.



Conceptual architecture. Battery, house inverter and installation are specified for the vessel.

Power that responds.

- | | |
|--------------------------|---|
| Engine load | Reduces output if engine overload is detected. |
| Temperature | Regulates output as motor and inverter temperatures change. |
| Battery demand | Compatible CAN BMS integration and stop-charge input. |
| System protection | Integrated load-dump protection. |

Scotty AI app setup and monitoring.
Compatible Victron GX display integration.



VOLVO D11 / SAFIERY INSTALLATION

Mounting options for selected Yanmar, Volvo Penta and Cummins applications. Single- and twin-engine configurations, with fitment confirmed for each engine.

Let's specify your system.

Bring your engine model, house-bank voltage and onboard power needs.

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