

ELECTRIC VEHICLES / EV CHARGING SYSTEMS

Electric vehicles and EV charging systems generate significant heat from batteries, power electronics, and control systems. Effective liquid cooling is essential to maintain performance, extend component life, and ensure system safety. GRI pumps enable precise and reliable fluid circulation within closed-loop cooling systems for optimal thermal management.

MARKET ADVANTAGES

Motors

- Brushless DC (BLDC)
- 12–48V operation range
- Manufactured in-house by GRI
- Designed for OEM customization
- Motor winding tailored to meet application-specific flow and pressure requirements

Magnetic Drive Technology

- Seal-less, leak-free design
- Motor fully isolated from fluid
- Improved reliability and safety
- Reduced maintenance requirements

Thermal Performance

- Supports fluid temperatures up to 225°F (107°C) (application limitations may apply)
- Enables efficient heat transfer in high-demand EV and charging environments

OEM Configuration Options

- Multiple configurations available to meet system design requirements
- Flexible integration for electric vehicles and EV charging stations



Pump Series	Maximum Flow GPM, (LPM)	Maximum Head (FT, (PSI))	Maximum System Pressure	Motor Specs/Voltages
INTG1	3.0, (12.0)	22.0, (10.0)	50 PSI	12-36 VDC
INTG3	8.85, (33.5)	37.0, (16.0)	75 PSI	12-24 VDC
INTG7	22.0, (83.0)	80.0, (35.0)	75 PSI	12-48 VDC
INTG8	39.0, (145.0)	70.0, (30.0)	75 PSI	12-48 VDC

INTEGRITY^{series}™

