

# 12V DC Refrigeration Compressor

By Kuvam Proto Solutions

**Efficient. Compact. Reliable Cooling for Mobile & Off-Grid Applications**

Power your refrigeration systems with **Kuvam Proto Solutions' 12V DC Refrigeration Compressor**, engineered for **energy efficiency, quiet operation, and continuous performance**. Ideal for **mobile refrigeration, EVs, solar-powered systems, medical cold storage, and portable cooling solutions**, this compressor delivers **stable cooling without the need for AC power**.

👉 [Request Datasheet](#)

👉 [Get Pricing](#)

👉 [Speak to a Technical Expert](#)

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## The Challenge with Conventional Compressors

Traditional AC compressors are:

- ❌ Inefficient for battery-powered systems
  - ❌ Bulky and power-hungry
  - ❌ Dependent on inverters or grid power
  - ❌ Unsuitable for mobile and off-grid use
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## The Kuvam Solution: 12V DC Refrigeration Compressor

Our **12-volt DC compressor** is purpose-built for **low power consumption and high reliability**, ensuring **consistent cooling even under fluctuating voltage conditions**.

### Key Advantages

- ✔ Direct DC operation (no inverter required)
- ✔ High energy efficiency
- ✔ Low noise & vibration
- ✔ Compact & lightweight design
- ✔ Long service life

 **Book a Product Demo**

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## **Key Features & Specifications**

### **High-Efficiency DC Motor**

- Optimized for low current draw
- Excellent cooling performance per watt

### **Wide Voltage Operating Range**

- Stable operation under battery or solar power
- Ideal for automotive and off-grid environments

### **Compact & Modular Design**

- Easy integration into OEM products
- Space-saving footprint

### **Quiet & Low Vibration**

- Suitable for medical, residential, and vehicle applications

### **Robust & Reliable Build**

- Designed for continuous operation
- Thermal and overload protection

 **Download Technical Specifications**

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## **Applications**

- Portable refrigerators & freezers
- Vaccine and medical cold storage boxes
- Electric vehicles (EV cooling systems)
- Solar-powered refrigeration
- Food & dairy transportation
- Marine and RV refrigeration
- Telecom & battery cabinet cooling

 **View Application Examples**

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## **Energy Efficient & Eco-Friendly**

- Compatible with **eco-friendly refrigerants**
  - Reduced battery drain
  - Supports sustainable and green cooling solutions
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## **Customization & OEM Supply**

Kuvam Proto Solutions supports:






- Custom voltage variants (12V / 24V)
- Cooling capacity tuning
- Controller and electronics integration
- OEM branding & bulk supply

Perfect for **OEMs, startups, system integrators, and cold-chain solution providers.**

 **Discuss OEM Requirements**

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## **Why Choose Kuvam Proto Solutions?**




-  Expertise in embedded systems & thermal solutions
  -  Designed for Indian & global operating conditions
  -  Rapid prototyping and customization
  -  Scalable manufacturing support
  -  Enterprise and PSU-ready documentation
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## **Get Started Today**

**Step 1: Request Datasheet & Specs**

**Step 2: Get Technical Consultation**

### **Step 3: Integrate into Your Product**

-  **Request Datasheet**
-  **Get a Custom Quote**
-  **Contact Kuvam Proto Solutions**