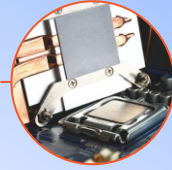


Humanoid Robots

Phase Change Material

Control Unit



Thermal Gel/Grease

Compliable for Vertical/Vibration Applications

Control Unit/Power Unit/ Charging Unit



Thermal Conductive Epoxy Potting

Joint Motor



Thermal Conductive Potting

Battery Pack



① High Power Density

Concentrated Heat Source &
Limited Dissipation Efficiency

② Dynamic Thermal Load

Dynamic Scene Adaptation &
Long-term Stability



④ Structural Constraints

Limited Space &
Minimized Weight Increase

③ Heat Accumulation

Long-time Running &
Thermal Accumulation Effect