Index

1. PV-IPM Features
2. Product Line-up
3. Term Explanation
4. Numbering System
5. Structure
6. Correct and Safety Use of Power Module
7. Reliability
   7-1. Introduction
   7-2. Basic Concepts of Semiconductor Device Reliability
   7-3. Mitsubishi’s Quality-Assurance Program
   7-4. Reliability Testing
   7-5. Failure Analysis
   7-6. Derating and Reliability Projections
   7-7. Conclusion
8. Installation of Power Module
   8-1. Installing Capacitor
   8-2. Installation Hints
   8-3. Thermal Impedance Considerations & Chip Layout
   8-4. Coating Method of Thermal Grease (Example)
9. Using IPM
   9-1. Applications of PV-IPM to Photovoltaic power generator
   9-2. Interface of control side of IPM
   9-3. Control Power supply of IPM
   9-4. Fault Signal of IPM
   9-5. Other notice of using IPM
10. Power Loss and Junction Temperature
11. Average Power Loss Simplified Calculation
12. Notice for safe Designs and when Using This Specification