

Mitsubishi Electric Corporation

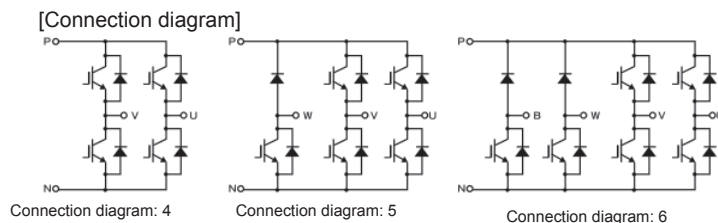
Power Devices - Power Modules for Solar Power Generation Systems

Features

- ◆ Conversion of direct-current (DC) electricity from solar power panels or fuel cell systems into alternating current (AC)
- ◆ Equipped with various protection circuits including short-circuit protection, power supply voltage control, and overheating protection
- ◆ Original loss-reducing IGBT (CSTBT™) structure
- ◆ Line-up includes both 50 and 75A/600V units with 4, 5 or 6 elements, ensuring best-match solutions for diverse system configurations
- ◆ Outer case available in three shapes to match power conditioner design
- ◆ Compliant with RoHS directives

Basic Concept or Summary

- Available in three models: A (screw terminal), B (pin terminal) and C (compact pin terminal), the latter of which has a base area approximately 30% smaller than A or B
- Original IGBT (CSTBT™) structure to reduce switching loss



A (screw terminal)



B (pin terminal)



C (compact pin terminal)

Effects or Remarks

- ◆ Type C (at rated current): collector/emitter voltage saturation ($V_{CE(sat)}$) 2.1V (Typ) $T_j = 25^\circ\text{C}$
- ◆ Built-in emitter current sensor

Installation in Practice or Schedule

Domestic 3-5kW power conditioners

Overseas

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