



IGBT Cold Plates

High Performance

ATS-CP Family of Cold Plates

ATS IGBT cold plates have unmatched thermal performance because of their mini-channel fin design. The ATS-CP family of cold plates, at a flow rate of 4 L/min, can transfer 1kW of heat between 5.0°C – 7.0°C temperature difference between the cold plate base and inlet fluid temperature, depending on the cold plate model. If the coolant has particles, a #60 filter or finer is recommended to remove possible particles in the liquid.

FEATURES AND BENEFITS

- » More than 30% improvement in thermal performance compared to commercially available cold plates
- » Compatible with industry accepted coolants
- » 1/4 NPT threaded input and output
- » Low pressure drop
- » Lightweight for ease of transportation
- » Provides uniform cold plate surface temperature when IGBTs are installed
- » Maximum pressure: 60 psi
- » **Applications:** Automotive Industry, Uninterruptible Power Supplies, Wind Turbines, Photovoltaic Inverters, Power Electronics, Induction Heaters, Motor Devices, Utility Vehicles, Anywhere power devices are used



Image for illustration purposes only

ATS COLD PLATES

- » **Innovative Technology**
Superior heat transfer, flexible design platform
- » **Compact Design**
Designed to fit standard IGBT and other power electronics applications
- » **Easy Connections**
Industry standard threaded hole sizes allows for hassle-free connection options
- » **Safe & Reliable**
Leak Free (100% tested:100 psi)
- » **Custom Options**
Choose from various options, i.e; fitting types, material types, device mounting and more. Contact ATS for additional information

» Customization Available!

ATS will customize any of the cold plates to fit into your application

ATS IGBT Cold Plate Family			
Part Number	Dimensions* (L x W x H)	Flow Rate (L/min)	ΔT @ 1kW between the cold plate base and inlet fluid temperature
ATS-CP-1000	202 x 130 x 20	4 L/min	5.50°C
ATS-CP-1001	198 x 147 x 20	4 L/min	5.00°C
ATS-CP-1002	162 x 136 x 20	4 L/min	7.00°C
ATS-CP-1003	162 x 147 x 20	4 L/min	6.80°C
ATS-CP-1004	162 x 172 x 20	4 L/min	5.90°C

IGBT COMPATIBILITY

- » Semikron SemiTRANS® Case D56
- » Infineon 62mm Pkg
- » Fuji Semiconductor M127 M234 and M235 Pkg
- » Powerex 62mm Pkg
- » Mitsubishi 62mm Pkg
- » Vincotech 62mm Pkg
- » Other IGBTs or high power devices

