

Featured Products



Achieves dramatic miniaturization, reliability, and energy savings in 400VAC industrial equipment

The Industry's First AC/DC Converter ICs with Built-in 1,700V SiC MOSFET

BM2SCQ12xT-LBZ

*ROHM September 2019 study

Greater miniaturization

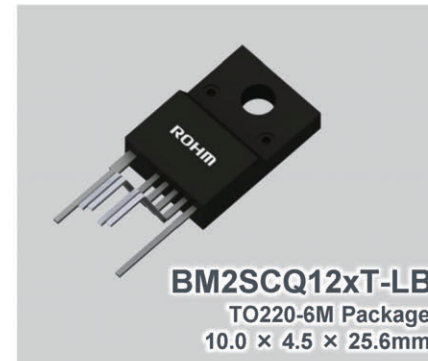
Achieves breakthrough miniaturization by replacing 12 components and heat sink with a single package

Higher reliability

Reduces design/mounting man-hours and risk while multiple built-in protection functions provide superior reliability

Improved efficiency with lower loss

Maximizes SiC MOSFET performance to achieve dramatically improved power savings

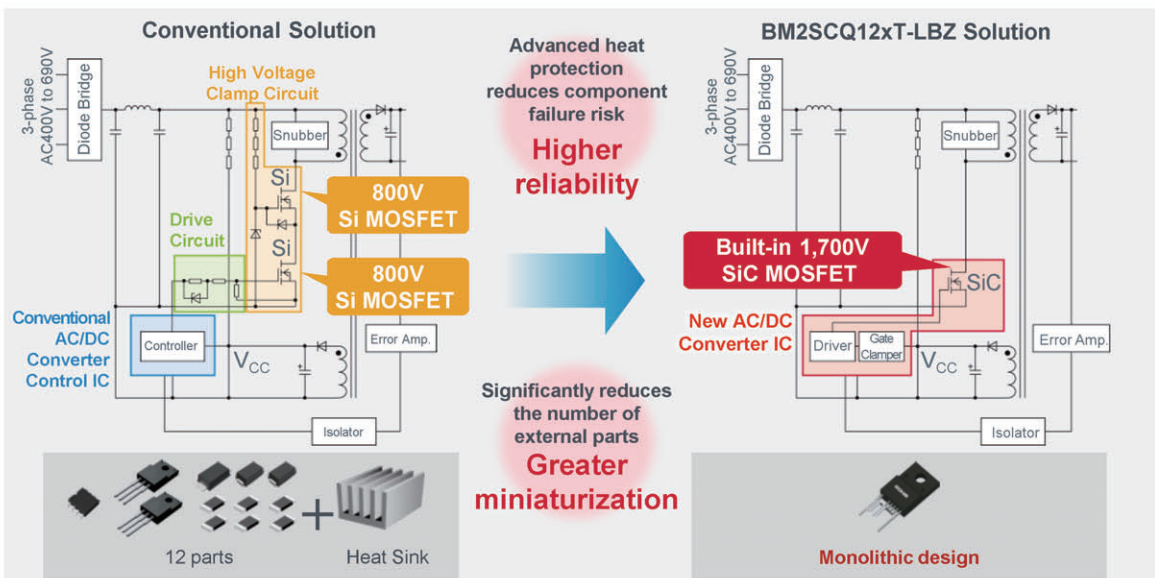


Evaluation Board Available
(For Purchase)

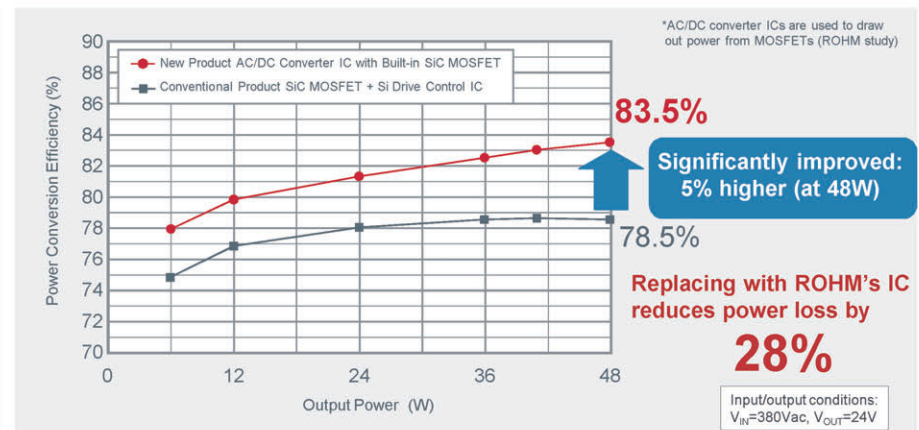


BM2SCQ123T-EVK-001

Application Circuit and Adoption Results

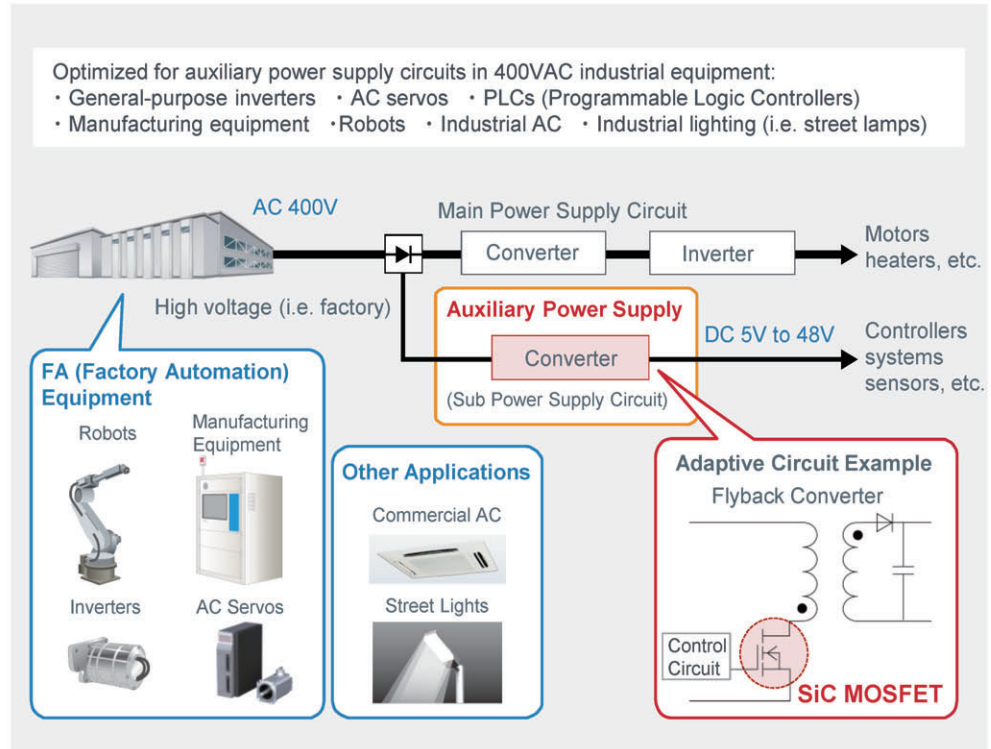
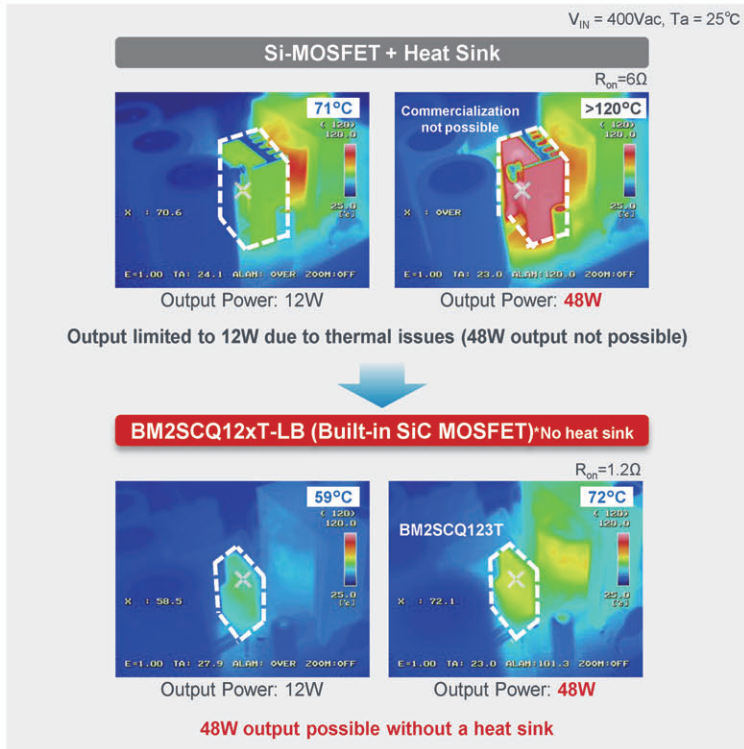


AC Converter Efficiency Comparison: Si vs SiC



The optimized gate drive circuit maximizes SiC MOSFET performance, improving efficiency by up to 5%

■ Application Diagram

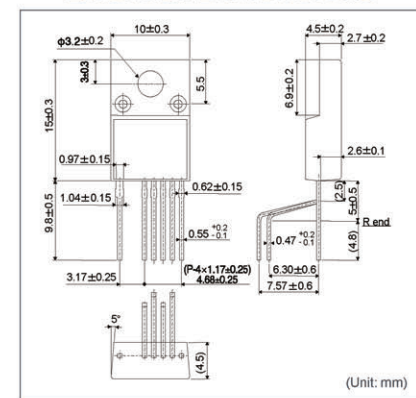


■ AC/DC Converter IC with Built-in SiC MOSFET Lineup

Part No.	Supply Voltage	Normal Operating Current Typ (μA)	Burst Operating Current Typ (μA)	Max Operating Frequency Typ (kHz)	FB OLP	VCC OVP	Operating Temp. (°C)	Package
New BM2SCQ121T-LBZ	VCC: 15.0 to 27.5V DRAIN: 1,700V(Max)	2,000	500	120	Auto Restart	Latch	-40 to +105	TO220-6M
New BM2SCQ122T-LBZ					Latch	Latch		
New BM2SCQ123T-LBZ*					Auto Restart	Auto Restart		
New BM2SCQ124T-LBZ					Latch	Auto Restart		

*An evaluation board compatible with universal AC input is available. For more information, please visit ROHM's website.

External Dimensions



The content specified in this document is correct as of September 1st, 2019.