

Title (en)  
POWER MODULE

Title (de)  
LEISTUNGSMODUL

Title (fr)  
MODULE DE PUISSANCE

Publication  
**EP 1378008 A2 20040107 (DE)**

Application  
**EP 01985858 A 20011210**

Priority  
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Abstract (en)  
[origin: WO02058142A2] The invention relates to a power module having a simple and cost-effective arrangement and ensuring reliable operation. To this end, a circuit comprising at least one electronic component is arranged on a carrier body. A conductor pattern is embodied on the upper side of said carrier body, and a structured cooler element consisting of the material of the carrier body is provided on the lower side of the same. The invention also relates to the use of the power module as a power converter for electric motors.

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IPC 8 full level  
**H01L 23/13** (2006.01); **H01L 23/367** (2006.01); **H01L 23/373** (2006.01)

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Citation (search report)  
See references of WO 02058142A2

Citation (examination)  
• US 5447189 A 19950905 - MCINTYRE GERALD L [US]  
• US 5158912 A 19921027 - KELLERMAN DAVE [US], et al  
• AT 383228 B 19870610 - BBC BROWN BOVERI & CIE [CH]  
• US 6039114 A 20000321 - BECKER KLAUS [DE], et al

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