



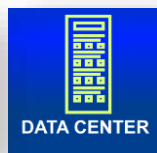
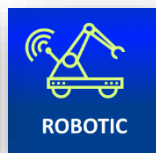
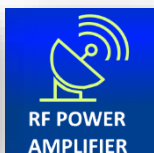
MODULES & SOLUTIONS

MLCC
longlife
No Life-Span
constrained

DC/DC Brick – Power Converter 150W up to 600W



**HV - Input
up to 425 Vdc**





BRICK-Series DC/DC Converter

The SQB, SHB, and SFB series are highly compact DC-DC converters featuring a standardized design. Due to their extreme reliability, high power density, and excellent thermal performance, they are deployed wherever harsh environmental conditions prevail and standard converters would fail.



Typical Applications:

- Telecom & Datacom: Telecommunications and data centers
- Industrial Automation & Mobile Systems: AGVs and robotics
- Railway Technology: Focus on ultra-wide input voltage ranges
- Aerospace & Defense: Aviation, defense technology

As well as any other sectors requiring compact, highly efficient power supply solutions that can withstand wide operating temperature ranges and extreme shock and vibration.

Our Services:

- **Consulting:** Comprehensive support in selecting the ideal module for your application
- Standard and modified module solution proposals
- Comprehensive design-in support (including EMC filtering & safety testing)
- Full-service development and manufacturing of customized turnkey solutions.

1/8
Brick



SQB

1/4
Brick



SQB

1/2
Brick



SHB

Full
Brick



SFB



Custom Design
Multi-Output Solution



SQB-Series (1/8 Brick)

120 W up to 150 W

DOSA
Pinout

V
Pinout



- ✓ DOSA- and V-Pin out
- ✓ 2:1 /4:1 Wide range Input
- ✓ Efficiency up to 92%
- ✓ Isolation Input/ Output 2250 Vdc
- ✓ Operation Temperature -40 ... +100°C
- ✓ Ceramic Capacitors
- ✓ Long Life-Design
- ✓ No minimum load requirement
- ✓ Output Voltage adjustable +/-10%
- ✓ Excellent EMI performance
- ✓ Remote On/ Off
- ✓ M3 thread optional for heat sink mounting
- ✓ OVP, OTP, OCP und UVLO
- ✓ Compact design

1/8
Brick

Remote on/off

+100°C
Temperature Range
-40°C

92%
Efficiency

3
Years
Warranty



The SQB series features isolated, fixed-frequency DC/DC converters utilizing synchronous rectification to achieve high efficiency and excellent EMI performance. Thanks to its enclosed aluminum housing, the module is shielded on all six sides and protected against extreme environmental conditions via vacuum encapsulation.

The standard output voltages of these highly compact converters (see table) are adjustable by $\pm 10\%$. Custom voltages are available upon request.

The series features comprehensive protection functions, including SCP, OVP, OCP, and OTP. All protection mechanisms operate in hiccup mode with an automatic restart function.

The modules are available with DOSA or V-pinout and feature a remote on/off function. The contacts are made of a gold-plated copper alloy to ensure optimal and reproductive soldering quality results.

Furthermore, the modules comply with the relevant generic standards for railway technology, industry, telecommunications, and defense-tech (see technical data / TD).

2250Vdc

PI-Filter

OVP
Over Voltage Protection

OCP
Over Current Protection

SCP
Short Circuit Protection

OTP
Over Temperature Protection

UVLO
Under Voltage Lock Out

SQB	110	120	S	P	F	150	S
Series Name	Input Voltage in Vdc	Output Voltage	Pin out	Remote Control Option	Shape	Power in W	PIN Style
SQB Supreme Quarter Brick	018: 9...36	050: 5	S: DOSA	P: Positive logic	F: No Flange	120	None: standard
	024: 18...36	120: 12					
	036: 18...75	150: 15	V: Vicor	N: Negative logic		up to 150	S: Short Version 4.5 mm
	110: 40...180	240: 24					
	300: 180...425	280: 28					
		480: 48					



Custom Design
Rolling Stock



SQB-Series (1/4 Brick)

120 W up to 150 W

DOSA
Pinout

V
Pinout



1/4
Brick

Remote on/off

+100°C
Temperature Range
-40°C

92%
Efficiency

3
Years
Warranty

- ✓ DOSA- and V-Pin out
- ✓ 2:1 /4:1 Wide range Input
- ✓ Efficiency up to 92%
- ✓ Isolation Input/ Output 2250 Vdc
- ✓ Operation Temperature -40 ... +100°C
- ✓ Ceramic Capacitors
- ✓ Long Life-Design
- ✓ No minimum load requirement
- ✓ Output Voltage adjustable +/-10%
- ✓ Excellent EMI performance
- ✓ Remote On/ Off
- ✓ M3 thread optional for heat sink mounting
- ✓ OVP, OTP, OCP und UVLO
- ✓ Compact design



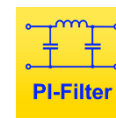
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The standard output voltages of these highly compact converters (see table) are adjustable by $\pm 10\%$. Custom voltages are available upon request.

The series features comprehensive protection functions, including SCP, OVP, OCP, and OTP. All protection mechanisms operate in hiccup mode with an automatic restart function.

The modules are available with DOSA or V-pinout and feature a remote on/off function. The contacts are made of a gold-plated copper alloy to ensure optimal and reproductive soldering quality results.

Furthermore, the modules comply with the relevant generic standards for railway technology, industry, telecommunications, and defense-tech (see technical data / TD).



SQB	110	120	S	P	B	150	S
Series Name	Input Voltage in Vdc	Output in Vdc	Pin out	Remote Control Option	Shape	Power in W	PIN Style
SQB Supreme Quarter Brick	018: 9...36	050: 5					
	024: 18...36	120: 12		P: Positive logic		120	None: standard
	036: 18...75	150: 15	S: DOSA	N: Negative logic	B: Base Plate	up to	S: Short Version 4.5 mm
	110: 40...180	240: 24	V: Vicor			150	
	300: 180...425	280: 28 480: 48					



Custom Design Data Hub



SHB-Series (1/2 Brick)

200 W up to 300 W



- ✓ DOSA- and V-Pinout
- ✓ 2:1 /4:1 Wide Range Input
- ✓ Efficiency up to 92%
- ✓ Isolation Input/Output 2250 Vdc
- ✓ Operation Temperature -45 ... +105°C
- ✓ Ceramic Capacitors
- ✓ Long Life-Design
- ✓ No minimum load requirement
- ✓ Output Voltage adjustable $\pm 10\%$
- ✓ Excellent EMI performance
- ✓ Remote On/ Off
- ✓ M3 thread optional for heat sink mounting
- ✓ OVP, OTP, OCP und UVLO
- ✓ Compact Design

1/2 Brick

Remote on/off

+105°C
Temperature Range
-45°C

92%
Efficiency

3
Years
Warranty

RoHS
COMPLIANT

CE

REACH
COMPLIANT

The SHB series features isolated, fixed-frequency DC/DC converters utilizing synchronous rectification to achieve high efficiency and excellent EMI performance. Thanks to its enclosed aluminum housing, the module is shielded on all six sides and protected against extreme environmental conditions via vacuum encapsulation.

ISO

MLCC
longlife
No Life-Span
constrained

The standard output voltages of these highly compact converters (see table) are adjustable by $\pm 10\%$. Custom voltages are available upon request.

2250Vdc

PI-Filter

The series features comprehensive protection functions, including SCP, OVP, OCP, and OTP. All protection mechanisms operate in hiccup mode with an automatic restart function.

OVP
Over Voltage
Protection

OCP
Over Current
Protection

SCP
Short Circuit
Protection

The modules are available with DOSA or V-pinout and feature a remote on/off function. The contacts are made of a gold-plated copper alloy to ensure optimal and reproductive soldering results.

OTP
Over
Temperature
Protection

UVLO
Under Voltage
Lock Out

The modules comply with the relevant generic standards for railway technology, industry, telecommunications, and defense-tech (see TD).

SHB	110	120	S	P	B	300
Series Name	Input Voltage in Vdc	Output in Vdc	Pin out	Remote Control Option	Shape	Power in W
SHB Supreme Half Brick	018: 9...36	050: 5	S: DOSA V: Vicor	P: Positive logic N: Negative logic	B: Base Plate	200 up to 300
	024: 18...36	120: 12				
	036: 18...75	240: 24				
	110: 40...180	280: 28				
	300: 180...425	480: 48				



**Custom Design
Rolling Stock Repeater**



SFB-Series (Full Brick)

400 W up to 600 W



- ✓ V-Pinout
- ✓ 2:1 /4:1 Wide Range Input
- ✓ Efficiency up to 92%
- ✓ Isolation Input/Output 2250 Vdc
- ✓ Operation Temperature -45 ... +105°C
- ✓ Ceramic Capacitors
- ✓ Long Life-Design
- ✓ No minimum load requirement
- ✓ Output Voltage adjustable $\pm 10\%$
- ✓ Excellent EMI performance
- ✓ Remote On/ Off
- ✓ M3 thread optional for heat sink mounting
- ✓ OVP, OTP, OCP und UVLO
- ✓ Compact Design

Full Brick

Remote on/off

+105°C
Temperature Range
-45°C

91%
Efficiency

3
Jahre
Garantie

CE

The SFB series features isolated, fixed-frequency DC/DC converters utilizing synchronous rectification to achieve high efficiency and excellent EMI performance. Thanks to its enclosed aluminum housing, the module is shielded on all six sides and protected against extreme environmental conditions via vacuum encapsulation.

MLCC
longlife
No Life-Span constrained

The standard output voltages of these highly compact converters (see table) are adjustable by $\pm 10\%$. Custom voltages are available upon request.

PI-Filter

The series features comprehensive protection functions, including SCP, OVP, OCP, and OTP. All protection mechanisms operate in hiccup mode with an automatic restart function.

OVP
Over Voltage Protection

OCP
Over Current Protection

SCP
Short Circuit Protection

The modules are available with V-pinout and feature a remote on/off function. The contacts are made of a gold-plated copper alloy to ensure optimal and reproductive soldering quality results.

OTP
Over Temperature Protection

UVLO
Under Voltage Lock Out

The modules comply with the relevant generic standards for railway technology, industry, telecommunications, and defense-tech (see TD).

SFB	110	120	V	P	B	600
Series Name	Input Voltage in Vdc	Output Voltage	Pin out	Remote Control Option	Shape	Power in W
SFB Supreme Full Brick	018: 9...36					
	024: 18...36	120: 12		P: Positive logic	B: Base Plate	400 up to 600
	036: 18...75	240: 24	V: Vicor	N: Negative logic		
	110: 40...180	280: 28				
	300: 180...425	480: 48				



Custom Design Communication

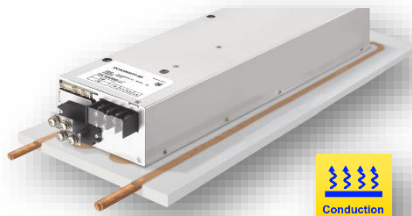


Power Electronics at a Glance:

AC/DC Power Supplies
3W...750W



AC/DC High Performance PSUs
1kW...3,5kW



AC/DC Powermodules
2W...150W



DC/DC High Power Modules
V-Pin compatible & DOSA
10W ... 600W



DC/DC Converter 60W...2kW
galvanically isolated



DC/AC Inverter 260W...6kW
1ph. 230Vac/ 3ph. 400Vac



AC/DC High Power Modules
100W...700W



External Adaptors
4,5W ... 550W



DC/DC Printmodules
2W ... 400W



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Let's talk!