

The logo for flex, featuring the word "flex" in a white, lowercase, sans-serif font. The background of the entire page is a dark blue circuit board pattern with glowing orange and blue lines and nodes.

flex®

Power Modules

Selection Guide

2026

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Powering your innovation

About us

Flex Power Modules (formerly Ericsson Power Modules) is a Flex business unit that designs and manufactures board-mounted DC/DC conversion products for data centers, telecom and industrial & transportation markets.

Our headquarters is located in Kalmar, Sweden, which is also one of our design centers. The second design center is based in Shanghai, China.

We manufacture our products in China, Malaysia and Austria with emphasis on quality and highly automated production. We are one of the largest volume manufacturers in the power modules industry, having delivered more than 120 million modules globally.

To support our global customer base, our network of technical salespeople and field application engineers cover the Americas, Asia Pacific, Europe, Middle East and Africa. We also work with an extensive network of channel partners and representatives offering local support for all our customers.

Our products

With more than 45 years of experience and over 155 registered patents in power solutions, we have achieved many industry innovations in the areas of Distributed Power Architectures (DPA), Intermediate Bus Architectures (IBA), Direct Conversion products (Di-Con), Point of Load converters (PoL), Integrated Power Stages, Vertical Power Delivery (VPD) and High Voltage Direct Current (HVDC) solutions.

Power evolution

Since launching our first DC/DC converters in the late 70s with an output power of 25-40W, we now develop high density power modules with peak power capabilities up to 3000W and power densities of up to 15kW/in³.

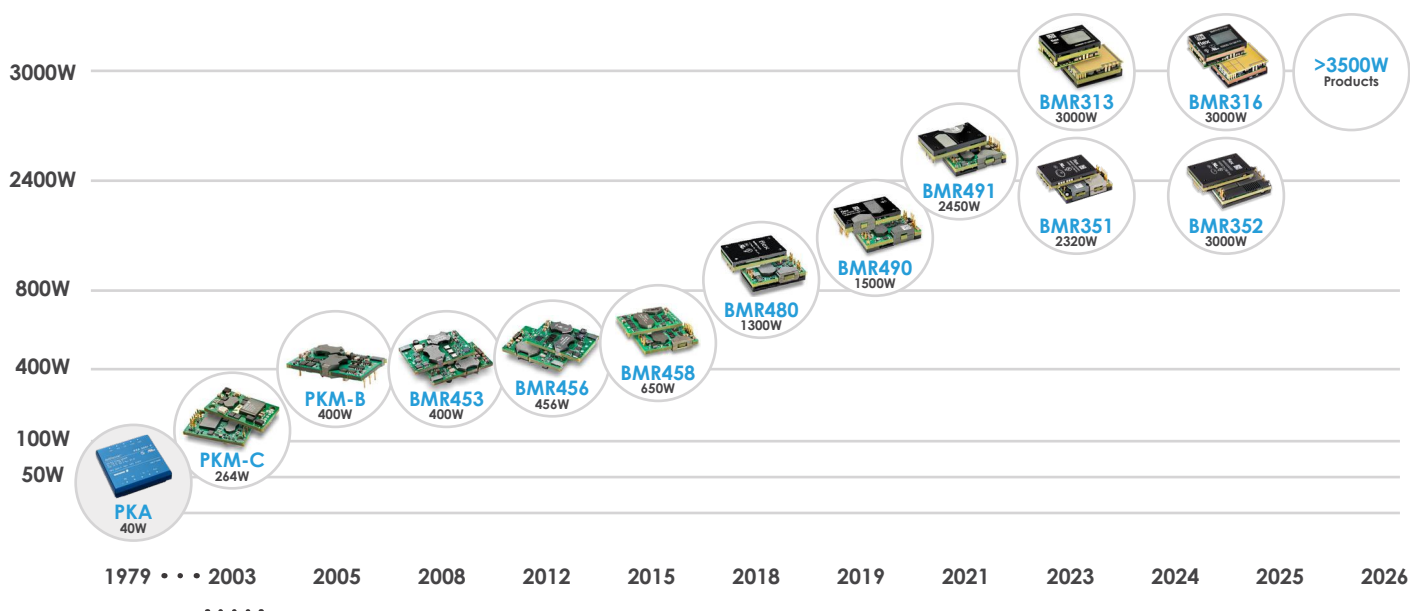
Our product categories include:

- Isolated/regulated, non-isolated/regulated and non-isolated/unregulated digital/analog DC/DC converters from 1W to 3500W (peak)
- Non-Isolated Point-of-Load converters from 2-200A (digital and analog)
- Power Interface Modules (PIM), ATCA compliant
- Application Specific Products (Industrial, RFPA)
- Software: Flex Power Designer Software & SMBus Tool
- Evaluation boards and accessories

Each of our products is the result of extensive research and development in power technology with broad application and system knowledge. By also developing these products with manufacturability and sustainability in mind, our product designs have:

- High efficiency over a wide load range
- High power density
- Excellent thermal performance
- Low total cost of ownership over product lifetime
- Excellent dynamic load performance
- High MTBF and long lifetime

Our power evolution



Application areas

Data Centers and Cloud

In the data center and cloud markets, we offer solutions for AI, cloud, storage, hyperscale computing and network security applications.

We innovate in this market with the use of LLC and SCC topologies and leading-edge components to deliver extremely high levels of power densities. We also apply Vertical Power Delivery (VPD) designs to enable direct underside connections to the power pins of associated processors and ASICs.

Learn more about datacom/data center solutions through our [DC/DC for data center applications brochure](#).

Telecom

We offer a wide portfolio of solutions for RFPA and 5G/6G applications, optical networking and microwave communications equipment in the telecom market.

Our products include the addition of digital connections to the DC/DC modules to enable monitoring, configuration and control of the DC/DC converter even in RF and Microwave Power Amplifier applications.

Learn more about telecoms solutions through our [DC/DC for telecom applications brochure](#).

Industrial & Transportation

Our wide range of high performance and high reliability DC/DC converters for the industrial market include applications for robotics, automation, smart grid, test and measurement equipment, transportation, medical, etc.

Learn more about industrial & transportation solutions through our [DC/DC for industrial and transportation applications brochure](#).



Isolated, regulated DC/DC converters

Our offering of isolated DC/DC converters are designed to support various markets including Telecom and Data Centers, Industrial, Transportation/Railway. We also offer a class-leading range of digital DC/DC converters that incorporate a PMBus compliant interface to complement the digital PoL (Point of Loads) on offer. All our digital products are supported by our Flex Power Designer tool.

Digital converters

Digital | Eighth Brick



BMR492



V _{OUT} (V)	V _{IN} (V)	V _{OUT ADJUST} (V)	I _{OUT} (A)	P _{OUT} (W)	P _{OUT PEAK} (W)	η (%)	DIMENSIONS (L X W X H)	PRODUCT REFERENCE
9	40-60	8-13.2	50	450		96.4	58.4 x 22.7 x 13.0 mm / 2.3 x 0.89 x 0.51 in.	BMR4920302/863
10.4	40-60	8-12	67/91	700	960	97.1	58.4 x 22.7 x 14.0 mm / 2.3 x 0.89 x 0.55 in.	BMR4920300/001
12	40-60	8-13.2	42	504		96.8	58.4 x 22.7 x 12.7 mm / 2.3 x 0.89 x 0.57 in.	BMR4920303/862
	36-75	8-13.2	42	504		96.1	58.4 x 22.7 x 12.7 mm / 2.3 x 0.89 x 0.57 in.	BMR4920311/011
	36-75	8-13.2	42	504		96.1	58.4 x 22.7 x 12.7 mm / 2.3 x 0.89 x 0.57 in.	BMR4920311/021*
	40-60	8-13.2	50	600		96.7	58.4 x 22.7 x 13.2 mm / 2.3 x 0.89 x 0.57 in.	BMR4920302/861
	40-60	8-12	67/91	800	1100	97.5	58.4 x 22.7 x 14.0 mm / 2.3 x 0.89 x 0.55 in.	BMR4920300/864

*Droop load sharing

Optional baseplated versions are available for all devices

BMR491



BMR480



BMR458



V _{OUT} (V)	V _{IN} (V)	V _{OUT ADJUST} (V)	I _{OUT} (A)	P _{OUT} (W)	P _{OUT PEAK} (W)	η (%)	DIMENSIONS (L X W X H)	PRODUCT REFERENCE
10.4	40-60	N/A	96.2	1000		97.3	58.4 x 36.8 x 14.5 mm / 2.3 x 1.45 x 0.57 in.	BMR4800114/003
	45-56	N/A	96.2	1000		97.3	58.4 x 36.8 x 14.5 mm / 2.3 x 1.45 x 0.57 in.	BMR4800100/001
12	36-75	8-13.2	50	600		96.4	57.9 x 36.8 x 11.2 mm / 2.28 x 1.45 x 0.44 in.	BMR4580002/003
	36-75	8-13.2	50	600		96.4	58.4 x 36.8 x 11.2 mm / 2.3 x 1.45 x 0.45 in.	BMR4580032/003
	40-60	8-13.2	54.2	650		96.6	57.9 x 36.8 x 11.2 mm / 2.28 x 1.45 x 0.44 in.	BMR4580011/002
	40-60	8-13.2	54.2	650		96.6	58.4 x 36.8 x 11.2 mm / 2.3 x 1.45 x 0.45 in.	BMR4580030/004
	36-60	N/A	69	800		96.4	58.4 x 36.8 x 14.5 mm / 2.3 x 1.45 x 0.57 in.	BMR4800113/034*
	40-60	N/A	75	900		97.3	58.4 x 36.8 x 14.5 mm / 2.3 x 1.45 x 0.57 in.	BMR4800102/002**
	45-60	N/A	108.3	1300		97.3	58.4 x 36.8 x 14.5 mm / 2.3 x 1.45 x 0.57 in.	BMR4800106/005**
	40-60	8-13.2	108.3	1300		97.0	58.4 x 36.8 x 14 mm / 2.3 x 1.45 x 0.55 in.	BMR4910202/853*
	40-60	8-13.2	108.3	1300		97.0	58.4 x 36.8 x 14 mm / 2.3 x 1.45 x 0.55 in.	BMR4910203/851**
	40-60	8-13.2	110	1300	1800	97.4	58.4 x 36.8 x 14.5 mm / 2.3 x 1.45 x 0.57 in.	BMR4912511/858**
	48-56	8-13	200	1400	2400	97.5	58.4 x 36.8 x 13.8 mm / 2.3 x 1.45 x 0.544 in.	BMR4912307/856
	48-56	8-13	200	1400	2400	97.5	58.4 x 36.8 x 13.8 mm / 2.3 x 1.45 x 0.544 in.	BMR4912314/880*
	45-60	8-13	205	1540	2450	97.4	58.4 x 36.8 x 14.5 mm / 2.3 x 1.45 x 0.57 in.	BMR4913208/857
	36-75	8-13.2	50	600		96.4	57.9 x 36.8 x 11.2 mm / 2.28 x 1.45 x 0.45 in.	BMR4580002/014**
12.45	36-75	8-13.2	50	600		96.4	58.4 x 36.8 x 11.2 mm / 2.3 x 1.45 x 0.45 in.	BMR4580032/014**
	36-75	8-13.2	50	615		96.4	57.9 x 36.8 x 11.2 mm / 2.28 x 1.45 x 0.45 in.	BMR4580002/031*
	40-60	8-13.2	54.2	650		96.6	57.9 x 36.8 x 11.2 mm / 2.28 x 1.45 x 0.45 in.	BMR4580011/017**
	40-60	8-13.2	54.2	665		96.6	57.9 x 36.8 x 11.2 mm / 2.28 x 1.45 x 0.45 in.	BMR4580011/032*
	40-60	8-13.2	54.2	650		96.6	57.9 x 36.8 x 11.2 mm / 2.28 x 1.45 x 0.45 in.	BMR4580020/018**
	40-60	8-13.2	54.2	650		96.6	58.4 x 36.8 x 11.2 mm / 2.3 x 1.45 x 0.45 in.	BMR4580030/020**
	40-60	8-13.2	54.2	650		96.6	58.4 x 36.8 x 11.2 mm / 2.3 x 1.45 x 0.45 in.	BMR4580030/020**
24	40-60	16-26.4	55	1300		96.8	58.4 x 36.8 x 14.5 mm / 2.3 x 1.45 x 0.57 in.	BMR4912510/871
28	36-60	18-32	17.9	500		95.5	58.4 x 36.8 x 12.7 mm / 2.3 x 1.45 x 0.5 in.	BMR6830300/200

*Active current sharing **Droop load sharing

Analog converters

Analog | **Sixteenth Brick**

PKU-D



PKU-D
with baseplate



PKU-E



V _{OUT} (V)	V _{IN} (V)	V _{OUT ADJUST} (V)	I _{OUT} (A)	P _{OUT} (W)	η (%)	DIMENSIONS (L X W X H)	PRODUCT REFERENCE
3.3	18-75	3.0-3.7	15	50	92	33 x 22.9 x 9.4 mm / 1.3 x 0.9 x 0.37 in.	PKU5510E
	36-75	2.6-3.6	20	66	92	33 x 22.9 x 9.4 mm / 1.3 x 0.9 x 0.37 in.	PKU4610E
	36-75	2.6-3.7	30.3	110	93.7	33 x 22.9 x 11.3 mm / 1.3 x 0.9 x 0.44 in.	PKU4110D
5	18-75	4.5-5.5	10	50	92	33 x 22.9 x 9.4 mm / 1.3 x 0.9 x 0.37 in.	PKU5511E
NEW	36-75	4-5.5	20	100	93.2	33 x 22.9 x 11.3 mm / 1.3 x 0.9 x 0.44 in	PKU4911D
	36-75	4.0-5.5	27	150	93.6	33 x 22.9 x 11.3 mm / 1.3 x 0.9 x 0.44 in.	PKU4111D
5.5	18-60	5.0-6.0	9	50	92	33 x 22.9 x 9.4 mm / 1.3 x 0.9 x 0.37 in.	PKU4517VE
6	28-60	5.5-6.5	8.5	50	90.7	33 x 22.9 x 9.4 mm / 1.3 x 0.9 x 0.37 in.	PKU5517VE
NEW	36-60	5.5-6.6	16.7	100	92.7	33 x 22.9 x 11.3 mm / 1.3 x 0.9 x 0.44 in	PKU4917VD
6.5	36-75	5.2-7.2	10	65	89.8	33 x 22.9 x 9.4 mm / 1.3 x 0.9 x 0.37 in.	PKU4717E
10.4	36-60	9.4-10.9	25	260	96.1	33 x 22.9 x 11.3 mm / 1.3 x 0.9 x 0.44 in.	PKU4217D
12	18-75	9.6-13.2	4.2	50	91.7	33 x 22.8 x 9.4mm / 1.3 x 0.9 x 0.37 in.	PKU5513E
	36-75	9.6-13.2	10	120	95.5	33 x 22.9 x 11.3 mm / 1.3 x 0.9 x 0.44 in.	PKU4113D
	36-75	9.6-13.2	17	204	95	33 x 22.9 x 11.3 mm / 1.3 x 0.9 x 0.44 in.	PKU4213D
	36-75	9.6-13.2	8.3	100	94.5	33 x 22.9 x 11.3 mm / 1.3 x 0.9 x 0.44 in.	PKU4913D
	30-60	9.6-13.2	8.3	100	93.8	33 x 22.9 x 11.3 mm / 1.3 x 0.9 x 0.44 in.	PKU3913D
	48-60	10.8-12.24	25	300	96.1	33 x 22.9 x 11.3 mm / 1.3 x 0.9 x 0.44 in.	PKU4317D
15	36-75	12.0-16.5	5.7	86	91.6	33 x 22.9 x 9.6 mm / 1.3 x 0.9 x 0.38 in.	PKU4815C
24	28-60	19.2-26.4	1.8	43	91.7	33 x 22.9 x 9.6 mm / 1.3 x 0.9 x 0.38 in.	PKU4416Z
24/28/30	36-75	10-33	3.3	79.2	92.9	33 x 22.9 x 9.6 mm / 1.3 x 0.9 x 0.38 in.	PKU4116C*

* Default voltage = 30V

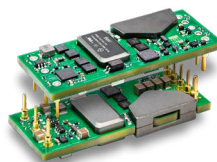
PKB-D
with baseplate



PKB-D



PKB-C



V_{OUT} (V)	V_{IN} (V)	$V_{OUT\ ADJUST}$ (V)	I_{OUT} (A)	P_{OUT} (W)	η (%)	DIMENSIONS (L X W X H)	PRODUCT REFERENCE
3.3	36-75	2.6-3.6	40	132	94.7	58.4 x 22.7 x 9.6 mm / 2.3 x 0.89 x 0.38 in.	PKB4110D
	36-75	2.6-3.6	62	205	95.4	58.4 x 22.7 x 13.2 mm / 2.3 x 0.9 x 0.52 in.	PKB4210DA
5	36-75	4-5.5	30	150	94.5	58.4 x 22.7 x 9.6 mm / 2.3 x 0.89 x 0.38 in.	PKB4111D
	36-75	4-5.5	40	200	95.3	58.4 x 22.7 x 9.6 mm / 2.3 x 0.89 x 0.38 in.	PKB4211D
	36-75	4-5.5	52	260	95.5	58.4 x 22.7 x 13.2 mm / 2.3 x 0.9 x 0.52 in.	PKB4211DA
10	36-75	N/A	25	250	95.7	58.4 x 22.7 x 9.6 mm / 2.3 x 0.89 x 0.38 in.	PKB4217ND
12	18-36	N/A	20	240	95.5	58.4 x 22.7 x 9.6 mm / 2.3 x 0.89 x 0.38 in.	PKB2213D
	18-60	N/A	20	240	94.6	58.4 x 22.7 x 13.2mm / 2.3 x 0.89 x 0.52 in.	PKB5213D
	36-75	N/A	22	264	95.4	58.4 x 22.7 x 9.6 mm / 2.3 x 0.89 x 0.38 in.	PKB4213D
	36-75	N/A	25	300	96.2	58.4 x 22.7 x 9.6 mm / 2.3 x 0.89 x 0.38 in.	PKB4313D
	36-75	N/A	32.5	390	95.6	58.4 x 22.7 x 9.6 mm / 2.3 x 0.89 x 0.38 in.	PKB4313DA
	36-75	N/A	34	408	96.2	58.4 x 22.7 x 9.6 mm / 2.3 x 0.89 x 0.38 in.	PKB4413DA
	36-60	N/A	37.5	450	96.2	58.4 x 22.7 x 9.6 mm / 2.3 x 0.89 x 0.38 in.	PKB4413D
24/28/30	36-75	15-33	6.7	200	95	58.4 x 22.7 x 8.5 mm / 2.3 x 0.90 x 0.34 in.	PKB4216C*
48/50	36-60	40-55	5	250	94.5	58.4 x 22.7 x 13.2 mm / 2.3 x 0.89 x 0.52 in.	PKB4216HD

* Default voltage = 30V

PKM-NH



PKM-NH with baseplate



PKM-D



V_{OUT} (V)	V_{IN} (V)	$V_{OUT\ ADJUST}$ (V)	I_{OUT} (A)	P_{OUT} (W)	η (%)	DIMENSIONS (L X W X H)	PRODUCT REFERENCE
10.8	40-60	N/A	70	750	97	57.9 x 36.8 x 11.4 mm / 2.28 x 1.45 x 0.45 in.	PKM4717BNH
	40-60	N/A	70	756	97	57.9 x 36.8 x 11.4 mm / 2.28 x 1.45 x 0.45 in.	PKM4717NH
	40-60	N/A	80	864	97	57.9 x 36.8 x 11.4 mm / 2.28 x 1.45 x 0.45 in.	PKM4817NH
11	45-60	N/A	80	800	97	57.9 x 36.8 x 11.4 mm / 2.28 x 1.45 x 0.45 in.	PKM4817LNH
11.6	36-75	N/A	50	580	96	57.9 x 36.8 x 11.4 mm / 2.28 x 1.45 x 0.45 in.	PKM4613ANH
12	36-75	N/A	50	600	96.2	57.9 x 36.8 x 11.4 mm / 2.28 x 1.45 x 0.45 in.	PKM4613NH
	40-60	N/A	58.3	700	96.5	57.9 x 36.8 x 11.4 mm / 2.28 x 1.45 x 0.45 in.	PKM4713NH
28/30	36-75	14-35	18	500	95.5	58.4 x 36.8 x 12.7 mm / 2.3 x 1.45 x 0.50 in.	PKM4516AD
48/50	36-75	25-55	10	500	95.1	58.4 x 36.8 x 12.7 mm / 2.3 x 1.45 x 0.50 in.	PKM4516HD

PKJ4000



V_{OUT} (V)	V_{IN} (V)	$V_{OUT\ ADJUST}$ (V)	I_{OUT} (A)	P_{OUT} (W)	η (%)	DIMENSIONS (L X W X H)	PRODUCT REFERENCE
28/30	36-75	14-35	25	700	96.2	61.0 x 57.9 x 12.7 mm / 2.4 x 2.28 x 0.5 in.	PKJ4716A
48/50	36-75	25-55	14	700	95.8	61.0 x 57.9 x 12.7 mm / 2.4 x 2.28 x 0.5 in.	PKJ4716HD

48V non-isolated, regulated DC/DC converters

These non-isolated, regulated converters deliver high efficiency (up to 98% and more), high power as well as some of them come with peak power capabilities. They are particularly designed to meet datacenter, cloud and hyperscale computing applications.

Digital | **Regulated Quarter Brick**



BMR352



BMR351



BMR350



V _{OUT} (V)	V _{IN} (V)	V _{OUT ADJUST} (V)	I _{OUT} (A)	P _{OUT} (W)	P _{OUT PEAK} (W)	η (%)	DIMENSIONS (L X W X H)	PRODUCT REFERENCE
12	40-60	8-13.2	50	600		98.1	58.4 x 36.8 x 12 mm / 2.3 x 1.45 x 0.47 in.	BMR3502320/802
	40-60	8-13.2	72	860		98.1	58.4 x 36.8 x 12 mm / 2.3 x 1.45 x 0.47 in.	BMR3502101/801*
	40-60	8-13.2	72	860		98.1	58.4 x 36.8 x 12 mm / 2.3 x 1.45 x 0.47 in.	BMR3504102/002**
	40-60	8-13.2	72/100	860	1200	98.1	58.4 x 36.8 x 12 mm / 2.3 x 1.45 x 0.47 in.	BMR3502100/031*
	40-60	8-13.2	108	1300		97.7	58.4 x 36.8 x 12 mm / 2.3 x 1.45 x 0.47 in.	BMR3502253/803**
	40-60	8-13.2	108 / 140	1300	1700	97.7	58.4 x 36.8 x 12 mm / 2.3 x 1.45 x 0.47 in.	BMR3502250/531*
	40-60	8-13.2	136 / 200	1600	2320	97.8	58.4 x 36.8 x 14.7 mm / 2.3 x 1.45 x 0.58 in.	BMR3512202/002*
	40-60	12.2	136/200	1600	2320	97.8	58.4 x 36.8 x 14.7 mm / 2.3 x 1.45 x 0.58 in.	BMR3514202/002**
	40-60	12.2	136/200	1600	2320	97.8	58.4 x 36.8 x 14.7 mm / 2.3 x 1.45 x 0.58 in.	BMR3512201/032*
	40-60	12.5	136/200	1600	2320	97.8	58.4 x 36.8 x 14.7 mm / 2.3 x 1.45 x 0.58 in.	BMR3512202/803**
	40-60	12.2	167/250	2000	3000	97.9	58.4 x 36.8 x 14.5 mm / 2.3 x 1.45 x 0.58 in.	BMR3522200/031*

* Active current sharing ** Droop load sharing

Digital | **Regulated Eighth Brick**

BMR353 | NEW



V _{OUT} (V)	V _{IN} (V)	V _{OUT ADJUST} (V)	I _{OUT} (A)	P _{OUT} (W)	P _{OUT PEAK} (W)	η (%)	DIMENSIONS (L X W X H)	PRODUCT REFERENCE
12.2	40-60	8-13.2	72	860	1200	97.4	58.4 x 22.7 x 12.8 mm / 2.3 x 0.89 x 0.5 in.	BMR3532100/001

48V non-isolated, unregulated DC/DC converters

These DC/DC converters come with an extremely high power density and are suitable for demanding AI applications. Some of the modules have peak power and even transient power functionality.

Digital | **Unregulated Fixed Ratio**



BMR317 | **NEW**

BMR316 | **NEW**

BMR323

BMR321



V_{OUT} (V)	V_{IN} (V)	RATIO	I_{OUT} (A)	P_{OUT} (W)	$P_{OUT\ PEAK}$ (W)	η (%)	DIMENSIONS (L X W X H)	PRODUCT REFERENCE
5-7.5	40-60	8:1	80	400	740	97.6	27.0 x 18.0 x 6.4 mm / 1.06 x 0.71 x 0.25 in.	BMR3201000/001
5-7.5	40-60	8:1	111	750	1500	98	41.47 x 17.67 x 6.9 mm / 1.63 x 0.7 x 0.26 in.	BMR3211000/001
5-7.5	40-60	8:1	90	600	1350	97.8	27.0 x 18.0 x 6.7 mm / 1.06 x 0.71 x 0.26 in.	BMR3231000/001
5-7.5 NEW	40-60	8:1	120	800	2000	97.2	23.4 x 17.8 x 8.7 mm / 0.92 x 0.70 x 0.34 in	BMR3170011/021
9.5-15	38-60	4:1	80	1000	3000	97.3	23.4 x 17.8 x 7.65 mm / 0.92 x 0.70 x 0.30 in.	BMR3131011/001
9.5-15	38-60	4:1	62	800	1500	97.5	23.4 x 17.8 x 9.65 mm / 0.92 x 0.70 x 0.38 in.	BMR3141011/001
9.5-15	38-60	4:1	80	1000	2800	97.7	23.4 x 17.8 x 7.65 mm / 0.92 x 0.70 x 0.30 in.	BMR3161011/021
9.5-15 NEW	38-60	4:1	80	1000	2800	97.7	23.4 x 17.8 x 7.55 mm / 0.92 x 0.70 x 0.29 in	BMR3160021/024*

* open frame variant

Point of Load (PoL)

Our Point of Load (PoL) devices are non-isolated DC/DC converters which include an industry leading array of digital solutions. They offer a PMBus interface for easy monitoring, configuration and control, including support from the “Flex Power Designer” engineering design tool.

Digital | PoL

BMR473
Horizontal Mount



BMR473
Vertical Mount SIP



BMR474



BMR4696001



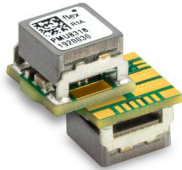
I _{OUT} (A)	V _{IN} (V)	V _{OUT ADJUST} (V)	P _{OUT} (W)	η (%)	DIMENSIONS (L X W X H)	PRODUCT REFERENCE
6	4.5-14	0.6-5	30	95.8	12.2 x 12.2 x 8.0 mm / 0.48 x 0.48 x 0.32 in.	BMR4612x01
12	4.5-14	0.6-5	60	96	12.2 x 12.2 x 8.0 mm / 0.48 x 0.48 x 0.32 in.	BMR4613x01
15	4.5-14	0.6-3.3	50	94.6	12.2 x 12.2 x 8.0 mm / 0.48 x 0.48 x 0.32 in.	BMR4615x01
18	4.5-14	0.6-1.8	36	91.6	12.2 x 12.2 x 8.0 mm / 0.48 x 0.48 x 0.32 in.	BMR4614x01
25	4.5-14	0.6-3.3	83	97.1	PTH/SMD: 26.65 x 13.8 x 8.2 mm / 1.01 x 0.54 x 0.32 in. SIP: 26.3 x 7.6 x 15.6 mm / 1.04 x 0.30 x 0.61 in.	BMR463x008
	7.5-14	0.6-5 (dual)	100	94.3	25.4 x 14.5 x 5.8 mm / 1.00 x 0.57 x 0.23 in.	BMR4696001*
40	6-15	0.6-5	100	96.2	SIP: 26.3 x 8.8 x 15.6 mm / 1.04 x 0.35 x 0.61 in.	BMR4731001/001
	6-15	0.6-5	100	96.2	SMD: 19.0 x 13.0 x 7.5 mm / 0.748 x 0.512 x 0.296 in.	BMR4732001/001
	7.5-14	0.6-5 (dual)	200	92.6	25.4 x 12.7 x 11.6 mm / 1.00 x 0.50 x 0.46 in.	BMR4690000**
50	7.5-14	0.6-5	100	94.3	25.4 x 14.5 x 5.8 mm / 1.00 x 0.57 x 0.23 in.	BMR4696001***
	4.5-14	0.6-3.3	165	97.2	PTH/SMD: 30.85 x 20.0 x 8.2 mm / 1.22 x 0.79 x 0.32 in. SIP: 33.0 x 7.6 x 18.1 mm / 1.30 x 0.30 x 0.71 in.	BMR464x008
60	4.5-14	0.6-1.8	108	93.6	25 x 14 x 7.0 mm / 0.98 x 0.55 x 0.28 in.	BMR4668x04
80	6-15	0.6-3.3	198	95.1	33 x 8.6 x 19 mm / 1.3 x 0.34 x 0.75 in.	BMR474x001
	7.5-14	0.6-5	200	92.6	25.4 x 12.7 x 11.6 mm / 1.00 x 0.50 x 0.46 in.	BMR4690000****

* Configured as dual output 2 x 25A ** Configured as dual output 2 x 40A *** Configured as single output 50A **** Configured as single output 80A

PNA



PMU



I _{OUT} (A)	V _{IN} (V)	V _{OUT ADJUST} (V)	P _{OUT} (W)	η (%)	DIMENSIONS (L X W X H)	PRODUCT REFERENCE
4	4.5-17	0.6-5.5	22	93.1	7.5 x 7.5 x 5.4 mm / 0.29 x 0.29 x 0.21 in.	PMU8218
6	4.5-17	0.6-5.5	33	92.7	7.5 x 7.5 x 5.4 mm / 0.29 x 0.29 x 0.21 in.	PMU8318
	9-36	0.9-5.5	33	95.5	13 x 12.35 x 6.2 mm / 0.51 x 0.49 x 0.24 in.	PNA2405S3S
8	4.5-17	0.6-5.5	44	91.9	7.5 x 7.5 x 5.4 mm / 0.29 x 0.29 x 0.21 in.	PMU8418

Multi-phase integrated power stages (VRM)

These 2 -phase intelligent power block digital converters have the power stages integrated on the module - either on top or bottom depending on the model. These converters are suitable for lateral and vertical power delivery. They require an external controller.

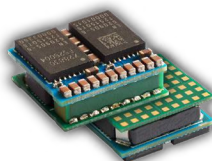
BMR511



BMR510



Renesas partner product:
RRV28830 | **NEW**



V _{OUT} (V)	V _{IN} (V)	I _{OUT} (A)	I _{OUT PEAK} (A)	P _{OUT} (W)	η (%)	DIMENSIONS (L X W X H)	PRODUCT REFERENCE
NEW 0.4-1.8	4.5-15	80	160		87	9 x 10 x 5 mm / 0.35 x 0.39 x 0.2 in.	RRV28830*
NEW 0.4-1.8	4.5-15	80	160		90	9 x 10 x 5 mm / 0.35 x 0.39 x 0.2 in	RRV28930
0.5-1.3	4.5-15	80	160	-	92	10.0 x 9.0 x 7.6 mm / 0.39 x 0.35 x 0.29 in.	BMR510x034/002
0.5-1.3	4.5-15	80	160	-	92	10 x 9 x 9.5 mm/ 0.39 x 0.35 x 0.37 in.	BMR510x041/002**
0.5-1.3	4.5-15	80	160	-	92	10 x 9 x 7.63 mm/0.39 x 0.35 x 0.30 in.	BMR510x041/002
0.5-1.8	5-15	80	140	-	94.5	10.0 x 9.0 x 8 mm / 0.39 x 0.35 x 0.31 in.	BMR5111044/002

*= TLVR variant

** = includes 528uF of output capacitance

Vertical Power Delivery (VPD)

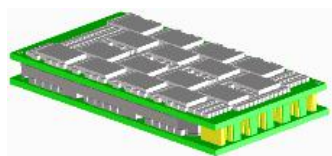
Increasing demands for ever higher current delivery driven by power hungry applications such as AI/Machine Learning require new approaches to the IC power distribution networks.

The challenges posed to supply high current, low voltage and extremely fast load transient response is solved by moving the voltage regulators to be placed directly under the processor on the bottom of the PCB, and is commonly referred to as Vertical Power Delivery (VPD).

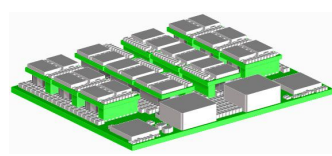
By further optimizing the pinout of the VPD modules to match that of the processor it is feeding, connection resistance and inductance can be minimized to allow much lower voltage variation and power dissipation.

Complex custom VPD modules have been developed to feed various types of CPUs, GPUs, FPGAs, ASICs etc. Our VPDs offer solutions from 1-25 rails across up to 288 phases, and can include up to 14000 solder ball connections. Some examples:

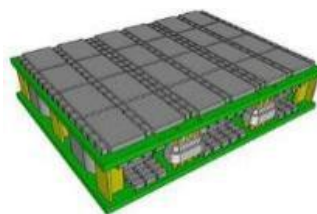
16 phases
1 rail



48 phases
5 rails



24 phases
5 rails



High Voltage Direct Current (HVDC)

Our HVDC DC/DC portfolio encompasses ± 400 V and 800 V modules, designed to support a wide range of system requirements.

BMR720 | **NEW**



V_{OUT} (V)	V_{IN} (V)	RATIO	I_{OUT} (A)	P_{OUT} (kW)	$P_{OUT\ PEAK}$ (kW)	η (%)	DIMENSIONS (L X W X H)	PRODUCT REFERENCE
45-55 NEW	± 400	16:1	200	10	15	98.5	116.8 x 61 x 14 mm / 4.56 x 2.4 x 0.55 in	BMR7201100/001

Power Interface Module (PIM)

Our Power Interface Modules (PIM) simplify the design in blade servers based on Advanced TCA standards and other applications. The PIM converter can be used for any industrial or ICT application employing a Distributed Power Architecture.

PIM4328



I_{OUT} (A)	V_{IN} (V)	V_{OUT1} (V)	V_{OUT2} (V)	I_{OUT2} (A)	V_{OUT3} (V)	I_{OUT3} (A)	P_{OUT} (W)	η (%)	DIMENSIONS (L X W X H)	PRODUCT REFERENCE
10-12	36-75	V_{in}	3.3	3.6	0.15	5	390-540	99	57.9 x 36.8 x 13.7 mm / 2.28 x 1.45 x 0.59 in.	PIM4328PD/PDA*

*ATCA compliant

Application specific products

We have a long history of serving the ICT industry with our traditional telecom products but we also offer specific devices that ideally suit RFPA applications. We also have a product portfolio to cover other alternate markets, including devices specifically focused on industrial and transportation applications.

Radio Frequency Power Amplifiers (RFPA)

Analog | RFPA

We have a wide offering of DC/DC converters aimed at Radio Frequency Power Amplifier (RFPA and microwave) applications in the telecom market segment. They are particularly designed for the 5G rollout.

PKU-D



PKM-D



PKJ



PKB-D



V _{OUT} (V)	V _{IN} (V)	V _{OUT ADJUST} (V)	I _{OUT} (A)	P _{OUT} (W)	η (%)	DIMENSIONS (L X W X H)	PRODUCT REFERENCE
24	28-60	19.2-26.4	1.8	43	91.7	33.0 x 22.9 x 9.6 mm / 1.3 x 0.9 x 0.38 in.	PKU4416Z
24/28/30	36-75	10-33	3.3	100	92.9	33.0 x 22.9 x 9.6 mm / 1.3 x 0.9 x 0.38 in.	PKU4116C*
	36-75	15-33	6.7	200	95	58.4 x 22.7 x 8.5 mm / 2.3 x 0.9 x 0.34 in.	PKB4216C*
	36-75	14-35	18	504	95.5	58.4 x 36.8 x 12.7 mm / 2.3 x 1.45 x 0.5 in.	PKM4516AD
	36-75	14-35	25	700	96.2	61.0 x 57.9 x 12.7 mm / 2.4 x 2.28 x 0.5 in.	PKJ4716A
48/50	36-60	40-55	5	250	94.5	58.4 x 22.7 x 13.2 mm / 2.3 x 0.89 x 0.52 in.	PKB4216HD
	36-75	25-55	10	500	95.1	58.4 x 36.8 x 12.7 mm / 2.3 x 1.45 x 0.5 in.	PKM4516HD
	36-75	25-55	14	700	95.8	61.0 x 57.9 x 12.7 mm / 2.4 x 2.28 x 0.5 in.	PKJ4716HD
55	36-60	N/A	2.0	110	92.4	33 x 22.9 x 9.8 mm / 1.3 x 0.9 x 0.38 in.	PKU4116HD

*Default output voltage = 30V

Digital | RFPA

BMR684



BMR685



V _{OUT} (V)	V _{IN} (V)	V _{OUT ADJUST} (V)	I _{OUT} (A)	P _{OUT} (W)	η (%)	DIMENSIONS (L X W X H)	PRODUCT REFERENCE
50	36-75	25-55	14	700	96	58.4 x 36.8 x 12.7 mm / 2.3 x 1.45 x 0.5 in.	BMR6841100/001
NEW	36-75	25-55	16	800	95.9	58.4 x 36.8 x 13.3 mm / 2.3 x 1.45 x 0.52 in	BMR6841120/001
	36-75	25-55	26.0	1300	97.2	61.0 x 57.9 x 12.7 mm / 2.4 x 2.28 x 0.5 in.	BMR6853300/001