

flex®

Power Modules

Selection Guide

August 2018

Powering Your Innovation

About Flex

Flex is the Sketch-to-Scale® solutions provider that designs and builds Intelligent Products for a Connected World™. With more than 200,000 professionals across 30 countries, in over 100 locations around the globe, Flex provides innovative design, engineering, manufacturing, real-time supply chain insight and logistics services to companies of all sizes in various industries and end-markets.

Flex Power Modules

Flex Power Modules (formerly Ericsson Power Modules) is a subsidiary of Flex that predominantly designs and manufactures board mounted DC/DC conversion products. Designed primarily for use in Information and Communication Technology (ICT) applications, we also offer board-mounted system solutions for other demanding applications such as the Industrial and Transportation markets.

Flex Power Modules is headquartered in Stockholm, Sweden, and has design centres in Kalmar, Sweden, and Shanghai, China. Manufacturing is also carried out in our factory in Shanghai. The emphasis is on quality and highly automated production, making the company one of the largest volume manufacturers in the power modules industry, having delivered more than 100 million modules to the world-wide market.

In order to support global market requirements, Flex Power Modules has a network of Technical Sales people and Field Application Engineers covering 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 our all customers.

About our products

Flex Power Modules has many industry first innovations to its credit, developed over 40 years of operation supplying solutions for Distributed Power Architectures, Intermediate Bus Architectures and most recently, Direct Conversion technology. Our products can be summarised as follows, which is also the way this Selection Guide is structured:

- » Isolated DC/DC converters from 1 W to 1.3 kW (both digital and analog)
- » Non-Isolated Point-of-Load regulators from 2 A to 120 A (both digital and analog)
- » Power Interface Modules (PIM)
- » Software: Flex Power Designer Software and SMBus
- » Evaluation boards and accessories

Every product design is the result of extensive research and development in power technology, with a broad application and system knowledge and a focus on design for environment and design for manufacturing.

The result is:

- » High Efficiency over a wide load range and High Power Density
- » Efficient thermal management low total cost of ownership over product lifetime
- » Excellent dynamic load performance
- » High MTBF and long lifetime

Safety and Environment

Power Module meets industry standards and strive to be an early adopter of new environmental regulations: EMI is specified in accordance to CISPR22/EN55022 standards and all products are IEC/EN/UL 60950-1 recognized and certified in accordance with IEC/EN/UL 60950-1, Safety of Information Technology Equipment, and shall comply with IEC/EN/UL 62368-1. The flammability rating for all construction parts of the products meets UL 94V-0.

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Isolated DC/DC Converters

Flex Power Modules' offering of Isolated DC/DC Converters include both industrial standard and brick standard footprints, designed to support various markets including ICT, Industrial and Transportation/Railway. We also offer a class-leading range of Digital DC/DC Converters that incorporate a PMBus compliant interface to complement the Digital PoLs on offer.

Sixteenth Brick Analog

Product examples:

PKU-A



PKU-D



PKU-E



Isolated DC/DC Converters: Sixteenth Brick Analog

V _{out}	V _{in}	V _{out (min)}	V _{out (max)}	I _{out (max)}	P _{out}	η %	Measurements (L x W x H)	Part #
1.2	36-75	1	1.3	25	30	83.5	33.0 x 22.9 x 9.9 mm; 1.3 x 0.9 x 0.39 in.	PKU 4318L
1.5	36-75	1	1.7	25	37.5	86.0	33.0 x 22.9 x 9.9 mm; 1.3 x 0.9 x 0.39 in.	PKU 4318H
1.8	36-75	1	2	25	45	86.4	33.0 x 22.9 x 9.9 mm; 1.3 x 0.9 x 0.39 in.	PKU 4418G
2.5	36-75	1.9	3	15	37.5	88.0	33.0 x 22.9 x 9.9 mm; 1.3 x 0.9 x 0.39 in.	PKU 4319
	36-75	2	2.8	25	62.5	90.0	33.0 x 22.9 x 9.9 mm; 1.3 x 0.9 x 0.39 in.	PKU 4619
3.3	18-72	3.0	3.6	10	33	89.2	33.0 x 22.9 x 7.5 mm; 1.3 x 0.9 x 0.29 in.	PKU 5310E *
	36-72	3.0	3.6	10	33	89.4	33.0 x 22.9 x 7.5 mm; 1.3 x 0.9 x 0.29 in.	PKU 4310E *
	18-75	3.0	3.6	15	50	92.0	33.0 x 22.9 x 9.4 mm; 1.3 x 0.9 x 0.37 in.	PKU 5510E
	36-75	1.9	3.6	15	50	89.7	33.0 x 22.9 x 9.9 mm; 1.3 x 0.9 x 0.39 in.	PKU 4510
	36-75	2.6	3.6	20	66	90.0	33.0 x 22.9 x 9.9 mm; 1.3 x 0.9 x 0.39 in.	PKU 4710*
NEW	36-75	2.6	3.6	20	66	92.0	33.0 x 22.9 x 9.4 mm; 1.3 x 0.9 x 0.37 in.	PKU 4610E *
	36-75	2.6	3.6	30.3	110	93.7	33.0 x 22.9 x 11.3 mm; 1.3 x 0.9 x 0.44 in.	PKU 4110D
5	18-72	4.5	5.5	7	35	91.0	33.0 x 22.9 x 7.5 mm; 1.3 x 0.9 x 0.30 in.	PKU 5311E *
	36-72	4.5	5.5	8	40	90.5	33.0 x 22.9 x 7.5 mm; 1.3 x 0.9 x 0.30 in.	PKU 4411E *
	18-75	4.5	5.5	10	50	92.0	33.0 x 22.9 x 9.4 mm; 1.3 x 0.9 x 0.37 in.	PKU 5511E
	36-75	4	5.5	10	50	89.8	33.0 x 22.9 x 9.9 mm; 1.3 x 0.9 x 0.39 in.	PKU 4511
NEW	36-60	5	6	12	60	94	33.0 x 22.9 x 8.4 mm; 1.3 x 0.9 x 0.33 in.	PKU 4611A
NEW	36-75	5	5	20	100	93.6	33.0 x 22.9 x 8.5 mm; 1.3 x 0.9 x 0.33 in.	PKU 4105C
	36-75	4	5.5	27	150	93.6	33.0 x 22.9 x 11.3 mm; 1.3 x 0.9 x 0.44 in.	PKU 4111D

V _{out}	V _{in}	V _{out (min)}	V _{out (max)}	I _{out (max)}	P _{out}	η %	Measurements (L x W x H)	Part #	
5.5	18-60	5	6	9	50	92.0	33.0 x 22.9 x 9.4 mm; 1.3 x 0.9 x 0.37 in.	PKU 4517VE	
	45-75	5.5	5.5	18	100	93.7	33.0 x 22.9 x 8.5 mm; 1.3 x 0.9 x 0.33 in.	PKU 4106C	
6	36-72	5.4	6.6	6	36	89.5	33.0 x 22.9 x 7.5 mm; 1.3 x 0.9 x 0.30 in.	PKU 4317VE *	
	28-60	5.5	6.5	8.5	50	90.7	33.0 x 22.9 x 9.4 mm; 1.3 x 0.9 x 0.37 in.	PKU 5517VE	
	36-75	6	6	16	100	93.5	33.0 x 22.9 x 8.5 mm; 1.3 x 0.9 x 0.33 in.	PKU 4107C	
	36-60	7	7		60	94.0	33.02 x 22.9 x 8.4 mm; 1.3 x 0.9 x 0.33 in.	PKU 4617VA	
6.5	36-75	5.2	7.15	10	65	89.8	33.0 x 22.9 x 9.4 mm; 1.3 x 0.9 x 0.37 in.	PKU 4717E	
12 NEW	18-72	10.8	13.2	2.8	33	89.2	33.0 x 22.9 x 7.5 mm; 1.3 x 0.9 x 0.30 in.	PKU 5313E *	
	18-75	9.6	13.2	4.2	50	91.7	33.0 x 22.9 x 9.4 mm; 1.3 x 0.9 x 0.37 in.	PKU 5513E	
	36-75	9.6	13.2	4.2	50	88.5	33.0 x 22.9 x 9.9 mm; 1.3 x 0.9 x 0.39 in.	PKU 4513	
	36-75	9.6	13.2	7	84	90.6	33.0 x 22.9 x 9.6 mm; 1.3 x 0.9 x 0.38 in.	PKU 4813C	
	NEW	36-75	12	12	8.3	100	93.4	33.0 x 22.9 x 8.5 mm; 1.3 x 0.9 x 0.33 in.	PKU 4104C
	36-75	9.6	13.2	10	120	94.5	33.0 x 22.9 x 11.3 mm; 1.3 x 0.9 x 0.44 in.	PKU 4113D	
	NEW	36-75	9.6	13.2	17	204	95.0	33.0 x 22.9 x 11.3 mm; 1.3 x 0.9 x 0.44 in.	PKU 4213D
15	18-72	13.5	16.5	2	30	89.0	33.0 x 22.9 x 7.5 mm; 1.3 x 0.9 x 0.30 in.	PKU 5315E *	
	36-72	13.5	16.5	2	30	89.0	33.0 x 22.9 x 7.5 mm; 1.3 x 0.9 x 0.30 in.	PKU 4315E *	
	36-75	12	16.5	3.3	50	89.5	33.0 x 22.9 x 9.9 mm; 1.3 x 0.9 x 0.39 in.	PKU 4515	
	36-75	12	16.5	5.7	86	91.6	33.0 x 22.9 x 9.6 mm; 1.3 x 0.9 x 0.38 in.	PKU 4815C	
24	28-60	19.2	26.4	1.8	43.2	91.7	33.0 x 22.9 x 9.6 mm; 1.3 x 0.9 x 0.38 in.	PKU 4416Z	
	36-75	10	33	3.3	79.2	92.9	33.0 x 22.9 x 9.6 mm; 1.3 x 0.9 x 0.38 in.	PKU 4116C	
28	36-75	10	33	3.3	92.4	92.9	33.0 x 22.9 x 9.6 mm; 1.3 x 0.9 x 0.38 in.	PKU 4116C (externally trimmed to 28 V)	
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.	PKU 4116C (externally trimmed to 30 V)	

* Not recommended for new designs

Eighth Brick Digital

Product examples:

BMR 457 with baseplate



BMR 457



BMR 454



Isolated DC/DC Converters: Eighth Brick Digital

V _{out}	V _{in}	V _{out (min)}	V _{out (max)}	I _{out}	P _{out}	η %	Measurements (L x W x H)	Part #
3.3	36-75	3	6.7	40	132	93.2	58.4 x 22.7 x 10.2 mm; 2.3 x 0.89 x 0.4 in.	BMR 4540002/003
5	36-75	3	6.7	38	190	94.5	58.4 x 22.7 x 10.2 mm; 2.3 x 0.89 x 0.4 in.	BMR 4540002/004
12	36-75	6.9	13.2	22	251	95.2	58.4 x 22.7 x 10.2 mm; 2.3 x 0.89 x 0.4 in.	BMR 4570007/013
	36-75	6.9	13.2	22	264	95.2	58.4 x 22.7 x 10.2 mm; 2.3 x 0.89 x 0.4 in.	BMR 4570004/001
	40-60	6.9	13.2	25	285	95.1	58.4 x 22.7 x 10.2 mm; 2.3 x 0.89 x 0.4 in.	BMR 4570011/016
	40-60	6.9	13.2	25	300	95.1	58.4 x 22.7 x 10.2 mm; 2.3 x 0.89 x 0.4 in.	BMR 4570000/002
12.5	36-75	6.9	13.2	22	261	95.2	58.4 x 22.7 x 10.2 mm; 2.3 x 0.89 x 0.4 in.	BMR 4570007/014
	40-60	6.9	13.2	25	296	95.1	58.4 x 22.7 x 10.2 mm; 2.3 x 0.89 x 0.4 in.	BMR 4570011/017

Eighth Brick Analog

Product examples:

PKB-D with baseplate

PKB-D

PKB-C



Isolated DC/DC Converters: Eighth Brick Analog

V _{out}	V _{in}	V _{out (min)}	V _{out (max)}	I _{out}	P _{out}	η %	Measurements (L x W x H)	Part #	
1	36-75	0.9	1.1	30	30	85.1	58.4 x 22.7 x 8.1 mm; 2.3 x 0.90 x 0.32 in.	PKB 4318N	
	36-75	0.8	1.1	50	50	87.2	58.4 x 22.7 x 8.5 mm; 2.3 x 0.90 x 0.34 in.	PKB 4518NC	
1.2	36-75	1.1	1.3	30	36	87	58.4 x 22.7 x 8.10 mm; 2.3 x 0.90 x 0.32 in.	PKB 4318OB	
	36-75	1	1.3	60	72	87.5	58.4 x 22.7 x 8.5 mm; 2.3 x 0.90 x 0.34 in.	PKB 4718LC	
1.5	36-75	1.2	1.7	30	45	88.5	58.4 x 22.7 x 8.1 mm; 2.3 x 0.90 x 0.32 in.	PKB 4418OA	
	36-75	1.2	1.7	60	90	88	58.4 x 22.7 x 8.5 mm; 2.3 x 0.90 x 0.34 in.	PKB 4918HC	
1.8	36-75	1.4	2	25	45	90	58.4 x 22.7 x 8.1 mm; 2.3 x 0.90 x 0.32 in.	PKB 4418	
	36-75	1.4	2	60	108	89	58.4 x 22.7 x 8.5 mm; 2.3 x 0.90 x 0.34 in.	PKB 4118GC	
2.5	36-75	2	2.8	25	62.5	90	58.4 x 22.7 x 8.1 mm; 2.3 x 0.90 x 0.32 in.	PKB 4619	
3.3	36-75	2.6	3.6	20	66	91.5	58.4 x 22.7 x 8.1 mm; 2.3 x 0.90 x 0.32 in.	PKB 4610	
	36-75	2.6	3.6	25	82.5	91.5	58.4 x 22.7 x 8.1 mm; 2.3 x 0.90 x 0.32 in.	PKB 4810	
	18-75	3	3.6	30	99	91.5	58.4 x 22.9 x 9.9 mm; 2.3 x 0.90 x 0.39 in.	PKB 5110W	
	36-72	2.6	3.6	30	99	92.7	58.4 x 22.7 x 8.5 mm; 2.3 x 0.90 x 0.34 in.	PKB 4910A	
	36-75	2.6	3.6	40	132	91	58.4 x 22.7 x 8.5 mm; 2.3 x 0.90 x 0.34 in.	PKB 4110C	
NEW	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.	PKB 4110D	
5.0	36-75	4	5.5	15	75	90.5	58.4 x 22.7 x 8.1 mm; 2.3 x 0.90 x 0.32 in.	PKB 4711	
	18-75	4.5	5.5	20	100	91.5	58.4 x 22.9 x 9.9 mm; 2.3 x 0.90 x 0.39 in.	PKB 5111W	
	36-72	4	5.5	25	125	93.5	58.4 x 22.7 x 8.5 mm; 2.3 x 0.90 x 0.34 in.	PKB 4111A	
	36-75	4	5.5	28	140	92	58.4 x 22.7 x 8.5 mm; 2.3 x 0.90 x 0.34 in.	PKB 4111C	
	NEW	36-75	4	5.5	30	150	94.5	58.4 x 22.7 x 9.6 mm; 2.3 x 0.90 x 0.38 in.	PKB 4111D
NEW	36-75	4	5.5	40	200	95.3	58.4 x 22.7 x 9.6 mm; 2.3 x 0.90 x 0.38 in.	PKB 4211D	
10 NEW	36-75	10	10	25	250	95.7	58.4 x 22.7 x 9.6 mm; 2.3 x 0.89 x 0.38 in.	PKB 4217ND	
11.4	38-75	11.4	11.4	21	240	95.5	58.4 x 22.7 x 8.1 mm; 2.3 x 0.90 x 0.32 in.	PKB 4217M	
12	36-75	9.6	13.2	6	72	90.6	58.4 x 22.7 x 8.1 mm; 2.3 x 0.90 x 0.32 in.	PKB 4713	
	36-75	9.6	13.2	7.5	90	90.5	58.4 x 22.7 x 8.1 mm; 2.3 x 0.90 x 0.32 in.	PKB 4913	
	18-75	10.8	13.2	10	120	91.5	58.4 x 22.9 x 9.9 mm; 2.3 x 0.90 x 0.39 in.	PKB 5113W	
	36-75	9.6	13.2	12	144	92.5	58.4 x 22.7 x 8.5 mm; 2.3 x 0.90 x 0.34 in.	PKB 4113C	
	NEW	40-75	12	12	20	240	95.5	58.4 x 22.7 x 8.1 mm; 2.3 x 0.90 x 0.32 in.	PKB 4204
	NEW	36-75	12	12	22	264	95.4	58.4 x 22.7 x 9.6 mm; 2.3 x 0.89 x 0.38 in.	PKB 4213D
	NEW	36-75	12	12	25	300	96.2	58.4 x 22.7 x 9.6 mm; 2.3 x 0.89 x 0.38 in.	PKB 4313D
	NEW	36-75	12	12	32.5	390	95.6	58.4 x 22.7 x 9.6 mm; 2.3 x 0.89 x 0.38 in.	PKB 4313DA
	NEW	36-75	12	12	34	408	96.2	58.4 x 22.7 x 9.6 mm; 2.3 x 0.89 x 0.38 in.	PKB 4413DA
NEW	36-60	12	12	37.5	450	96.2	58.4 x 22.7 x 9.6 mm; 2.3 x 0.89 x 0.38 in.	PKB 4413D	
15	36-75	12	16.5	5	75	91	58.4 x 22.7 x 8.1 mm; 2.3 x 0.89 x 0.32 in.	PKB 4715	
24	36-75	15	33	6.7	200	95	58.4 x 22.7 x 8.5 mm; 2.3 x 0.89 x 0.34 in.	PKB 4216C (trimmed to 24 V)	
28	36-75	15	33	6.7	200	95	58.4 x 22.7 x 8.5 mm; 2.3 x 0.89 x 0.34 in.	PKB 4216C (trimmed to 28 V)	
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.	PKB 4216C (trimmed to 30 V)	
50 NEW	36-60	40	55	5	250	94.5	58.4 x 22.7 x 9.6 mm; 2.3 x 0.90 x 0.38 in.	PKB 4216DPIHS	

Quarter Brick Digital

Product examples:

BMR 480



BMR 458



BMR 456



Isolated DC/DC Converters: Quarter Brick Digital

V _{out}	V _{in}	V _{out (min)}	V _{out (max)}	I _{out}	P _{out}	η %	Measurements (L x W x H)	Part #
3.3	36-75	3	6.7	60	198	94.9	57.9 x 36.8 x 11.6 mm; 2.28 x 1.45 x 0.46 in.	BMR 4530002/003
5	36-75	3	6.7	60	300	96.1	57.9 x 36.8 x 11.6 mm; 2.28 x 1.45 x 0.46 in.	BMR 4530002/004
9	36-75	4	13.2	35	315	95.3	57.9 x 36.8 x 11.3 mm; 2.28 x 1.45 x 0.45 in.	BMR 4560004/004
	36-60	4	13.2	39	351	95.9	57.9 x 36.8 x 11.3 mm; 2.28 x 1.45 x 0.45 in.	BMR 4560000/003
10.4 NEW	40-60	10.4	10.4	96.2	1000	97	58.4 x 36.8 x 14.5 mm; 2.29 x 1.45 x 0.57 in.	BMR 4801104/003
12 NEW NEW NEW NEW	36-75	4	13.2	35	400	96.4	57.9 x 36.8 x 11.3 mm; 2.28 x 1.45 x 0.45 in.	BMR 4560007/013
	36-75	4	13.2	35	420	96.4	57.9 x 36.8 x 11.3 mm; 2.28 x 1.45 x 0.45 in.	BMR 4560004/001
	36-75	4	13.2	35	420	96.4	57.9 x 36.8 x 11.3 mm; 2.28 x 1.45 x 0.45 in.	BMR 4560004/018
	40-60	4	13.2	39	445	96.8	57.9 x 36.8 x 11.3 mm; 2.28 x 1.45 x 0.45 in.	BMR 4560011/016
	40-60	4	13.2	39	468	96.8	57.9 x 36.8 x 11.3 mm; 2.28 x 1.45 x 0.45 in.	BMR 4560000/002
	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.	BMR 4580002/003
	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.	BMR 4580011/002
	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.	BMR 4580030/004
NEW	40-60	12	12	75	900	96.7	58.4 x 36.8 x 14.5 mm; 2.29 x 1.45 x 0.57 in.	BMR 4801102/xxx
NEW	45-60	12	12	108.3	1300	97.3	58.4 x 36.8 x 14.5 mm; 2.29 x 1.45 x 0.57 in.	BMR 4801106/xxx
12.45 NEW NEW NEW NEW	36-75	4	13.2	35	415	96.4	57.9 x 36.8 x 11.3 mm; 2.28 x 1.45 x 0.45 in.	BMR 4560007/014
	40-60	4	13.2	39	462	96.8	57.9 x 36.8 x 11.3 mm; 2.28 x 1.45 x 0.45 in.	BMR 4560011/017
	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.	BMR 4580002/014
	36-75	8	13.2	50	615	96.4	57.9 x 36.8 x 11.2 mm; 2.28 x 1.45 x 0.44 in.	BMR 4580002/031
	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 0.44 in.	BMR 4580011/017
	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 0.44 in.	BMR 4580011/032
	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 0.44 in.	BMR 4580020/018
	NEW	42-60	12	12	72	900	96.3	58.4 x 36.8 x 14.5 mm; 2.29 x 1.45 x 0.57 in.

Quarter Brick Analog

Product examples:

PKM-NH



PKM-NH with baseplate



Isolated DC/DC Converters: Quarter Brick Analog

V _{out}	V _{in}	V _{out (min)}	V _{out (max)}	I _{out}	P _{out}	η %	Measurements (L x W x H)	Part #
1.2	36-75	1.1	1.3	100	120	90	57.9 x 36.8 x 9.1 mm; 2.28 x 1.45 x 0.37 in.	PKM 4118LC
1.5	36-75	1.4	1.7	100	150	91	57.9 x 36.8 x 9.1 mm; 2.28 x 1.45 x 0.37 in.	PKM 4218HC
1.8	36-75	1.6	2	100	180	91.5	57.9 x 36.8 x 9.1 mm; 2.28 x 1.45 x 0.37 in.	PKM 4218GC
2.5	36-75	2.3	2.8	25	62.5	90	57.9 x 36.8 x 9.1 mm; 2.28 x 1.45 x 0.37 in.	PKM 4619E
3.3	18-36	3	3.6	15	50	89	57.9 x 36.8 x 8.5 mm; 2.28 x 1.45 x 0.37 in.	PKM 2510E
	36-75	3	3.6	15	50	90	57.9 x 36.8 x 8.5 mm; 2.28 x 1.45 x 0.37 in.	PKM 4510E
	36-75	3	3.6	25	82.5	92	57.9 x 36.8 x 8.5 mm; 2.28 x 1.45 x 0.37 in.	PKM 4810E
	18-36	3	3.6	25	82.5	92.2	57.9 x 36.8 x 8.5 mm; 2.28 x 1.45 x 0.37 in.	PKM 2810E
5	18-36	4.5	5.5	10	50	86.5	57.9 x 36.8 x 8.5 mm; 2.28 x 1.45 x 0.37 in.	PKM 2511E
	36-75	4.5	5.5	10	50	90	57.9 x 36.8 x 8.5 mm; 2.28 x 1.45 x 0.37 in.	PKM 4511E
	36-75	4.5	5.5	15	75	91	57.9 x 36.8 x 8.5 mm; 2.28 x 1.45 x 0.37 in.	PKM 4711E
	18-36	4.5	5.5	16.5	82.5	91.5	57.9 x 36.8 x 8.5 mm; 2.28 x 1.45 x 0.37 in.	PKM 2811E
10.8	40-60	10.8	10.8	70	750	97	57.9 x 36.8 x 11.4 mm; 2.28 x 1.45 x 0.45 in.	PKM 4717BNH
	40-60	10.8	10.8	70	756	97	57.9 x 36.8 x 11.4 mm; 2.28 x 1.45 x 0.45 in.	PKM 4717NH
	40-60	10.8	10.8	80	864	97	57.9 x 36.8 x 11.4 mm; 2.28 x 1.45 x 0.45 in.	PKM 4817NH PIHS
11	45-60	11	11	80	800	97	57.9 x 36.8 x 11.4 mm; 2.28 x 1.45 x 0.45 in.	PKM 4817LNH
11.6	36-75	11.6	11.6	50	580	96	57.9 x 36.8 x 11.4 mm; 2.28 x 1.45 x 0.45 in.	PKM 4613ANH
12	18-36	10.8	13.2	4.2	50	87	57.9 x 36.8 x 8.5 mm; 2.28 x 1.45 x 0.37 in.	PKM 2513E
	36-75	10.8	13.2	4.2	50	87	57.9 x 36.8 x 8.5 mm; 2.28 x 1.45 x 0.37 in.	PKM 4513E
	40-75	12	12	33	396	96.6	57.9 x 36.8 x 11.6 mm; 2.28 x 1.45 x 0.46 in.	PKM 4304
	36-75	12	12	50	600	96.2	57.9 x 36.8 x 11.6 mm; 2.28 x 1.45 x 0.46 in.	PKM 4613NH
15	18-36	13.5	16.5	3.3	50	88	57.9 x 36.8 x 8.5 mm; 2.28 x 1.45 x 0.37 in.	PKM 2515E
	36-75	13.5	16.5	3.3	50	86	57.9 x 36.8 x 8.5 mm; 2.28 x 1.45 x 0.37 in.	PKM 4515E
24	36-75	21.6	26.4	2.1	50	87	57.9 x 36.8 x 8.5 mm; 2.28 x 1.45 x 0.37 in.	PKM 4516ZE

Half Brick Analog

Product example:

PKJ



Isolated DC/DC Converters: Half Brick Analog

V _{out}	V _{in}	V _{out (min)}	V _{out (max)}	I _{out}	P _{out}	η %	Measurements (L x W x H)	Part #
28 NEW	36-75	14	35	25	700	96.2	61.0 x 57.9 x 12.7 mm; 2.40 x 2.23 x 0.50 in.	PKJ 4716A
50 NEW	36-75	25	55	14	700	96.3	61.0 x 57.9 x 12.7 mm; 2.40 x 2.23 x 0.50 in.	PKJ 4716H

Other Industry Standards

Product examples:

PKR



PKE



PKV



Isolated DC/DC Converters: Other Industry Standards

V _{out}	V _{in}	I _{out1}	V _{out2}	I _{out2}	P _{out}	η %	Measurements (L x W x H)	Part #
1.8	36-75	5	-	-	9	83	47.8 x 28.1 x 8.0 mm // 1.88 x 1.11 x 0.32 in.	PKR 4918B
2.5	36-75	4.4	-	-	11	85	47.8 x 28.1 x 8.0 mm // 1.88 x 1.11 x 0.32 in.	PKR 4919B
3.3	9-36	0.5	-	-	1.7	73	31.8 x 20.3 x 10.7 mm // 1.25 x 0.80 x 0.42 in.	PKV 3110
	18-72	0.5	-	-	1.7	73	31.8 x 20.3 x 10.7 mm // 1.25 x 0.80 x 0.42 in.	PKV 5110
	18-75	1.5	-	-	5	79	47.8 x 28.1 x 8.0 mm // 1.88 x 1.11 x 0.32 in.	PKR 5510
	18-36	2	-	-	6.6	82	47.8 x 28.1 x 8.0 mm // 1.88 x 1.11 x 0.32 in.	PKR 2610A
	36-75	3	-	-	9.9	80	47.8 x 28.1 x 8.0 mm // 1.88 x 1.11 x 0.32 in.	PKR 4910A
	9-36	4.5	-	-	15	84.6	25.4 x 25.4 x 10.8 mm // 1.00 x 1.00 x 0.43 in.	PKE 3210
	18-75	4.5	-	-	15	84.1	25.4 x 25.4 x 10.8 mm // 1.00 x 1.00 x 0.43 in.	PKE 5210
	36-75	4.5	-	-	15	85	47.8 x 28.1 x 8.0 mm // 1.88 x 1.11 x 0.32 in.	PKR 4110B
	36-75	1.5	5	1.4	12	90.8	47.8 x 28.1 x 8.0 mm // 1.88 x 1.11 x 0.32 in.	PKR 4128B (Dual Output)
36-75	2.1	5	0.5	9.5	81.9	47.8 x 28.1 x 8.0 mm // 1.88 x 1.11 x 0.32 in.	PKR 4928A (Dual Output)	
5	9-36	0.5	-	-	2.5	82	31.8 x 20.3 x 10.7 mm // 1.25 x 0.80 x 0.42 in.	PKV 3211
	18-72	0.5	-	-	2.5	82	31.8 x 20.3 x 10.7 mm // 1.25 x 0.80 x 0.42 in.	PKV 5211
	18-75	1.2	-	-	6	83	47.8 x 28.1 x 8.0 mm // 1.88 x 1.11 x 0.32 in.	PKR 5611
	18-36	2	-	-	10	85	47.8 x 28.1 x 8.0 mm // 1.88 x 1.11 x 0.32 in.	PKR 2111A
	9-36	3	-	-	15	88	25.4 x 25.4 x 10.8 mm // 1.0 x 1.0 x 0.43 in.	PKE 3211
	18-75	3	-	-	15	84.3	25.4 x 25.4 x 10.8 mm // 1.0 x 1.0 x 0.43 in.	PKE 5211
	36-75	3	-	-	15	83.5	47.8 x 28.1 x 8.0 mm // 1.88 x 1.11 x 0.32 in.	PKR 4211A
	66-160	20	-	-	100	86	57.91 x 36.8 x 12.7 mm // 2.28 x 1.45 x 0.5 in.	PKM 7111A PIP
	9-36	0.3	-5	0.3	2.5	82	31.8 x 20.3 x 10.7 mm // 1.25 x 0.80 x 0.42 in.	PKV 3222 (Dual Output)
18-72	0.3	-5	0.3	2.5	82	31.8 x 20.3 x 10.7 mm // 1.25 x 0.80 x 0.42 in.	PKV 5222 (Dual Output)	
7.1	36-75	2.2	-	-	15	83	47.8 x 28.1 x 8.0 mm // 1.88 x 1.11 x 0.32 in.	PKR 4117A
12	18-72	0.2	-	-	3	82	31.8 x 20.3 x 10.7 mm // 1.25 x 0.80 x 0.42 in.	PKV 5313
	9-36	0.3	-	-	3	82	31.8 x 20.3 x 10.7 mm // 1.25 x 0.80 x 0.42 in.	PKV 3313
	18-75	0.9	-	-	11	86	47.8 x 28.1 x 8.0 mm // 1.88 x 1.11 x 0.32 in.	PKR 5113
	18-36	1	-	-	12	87.5	47.8 x 28.1 x 8.0 mm // 1.88 x 1.11 x 0.32 in.	PKR 2113A
	9-36	1.3	-	-	15	86.5	25.4 x 25.4 x 10.8 mm // 1.0 x 1.0 x 0.43 in.	PKE 3213
	18-75	1.3	-	-	15	86.3	25.4 x 25.4 x 10.8 mm // 1.0 x 1.0 x 0.43 in.	PKE 5213
	9-36	2.5	-	-	30	88	50.8 x 25.4 x 11.9 mm // 2.0 x 1.0 x 0.47 in.	PKE 3313A
	9-36	0.1	-12	0.1	3	82	31.8 x 20.3 x 10.7 mm // 1.25 x 0.80 x 0.42 in.	PKV 3321 (Dual Output)
	18-72	0.1	-12	0.1	3	82	31.8 x 20.3 x 10.7 mm // 1.25 x 0.80 x 0.42 in.	PKV 5321 (Dual Output)
	18-36	0.6	-12	0.6	14.9	86.6	47.8 x 28.1 x 8.0 mm // 1.88 x 1.11 x 0.32 in.	PKR 2221A (Dual Output)
	36-75	0.6	-12	0.6	15	86.5	47.8 x 28.1 x 8.0 mm // 1.88 x 1.11 x 0.32 in.	PKR 4221A (Dual Output)
15	9-36	0.2	-	-	3	82	31.8 x 20.3 x 10.7 mm // 1.25 x 0.80 x 0.42 in.	PKV 3315
	18-72	0.2	-	-	3	82	31.8 x 20.3 x 10.7 mm // 1.25 x 0.80 x 0.42 in.	PKV 5315
	9-36	1	-	-	15	85.8	25.4 x 25.4 x 10.8 mm // 1.0 x 1.0 x 0.43 in.	PKE 3215
	18-75	1	-	-	15	84.4	25.4 x 25.4 x 10.8 mm // 1.0 x 1.0 x 0.43 in.	PKE 5215
	9-36	0.1	-15	0.1	3	80	31.8 x 20.3 x 10.7 mm // 1.25 x 0.80 x 0.42 in.	PKV 3325 (Dual Output)
	18-72	0.1	-15	0.1	3	82	31.8 x 20.3 x 10.7 mm // 1.25 x 0.80 x 0.42 in.	PKV 5325 (Dual Output)
24	9-36	1.3	-	-	30	90	25.4 x 25.4 x 10.8 mm // 1.00 x 1.00 x 0.43 in.	PKE3316Z

Point of Load (PoL)

Flex Power Modules' Point of Load (PoL) devices are non-isolated DC/DC converters and are available in multiple industry standard footprints including DOSA & POLA for analog solutions, and AMP for digital solutions offering a PMBus interface for easy monitoring, configuration and control, including support from the "Flex Power Designer" engineering design tool.

Point of Load - Digital

Product examples:

BMR 469



BMR 466



BMR 461



Point of Load (PoL): Digital

I _{out}	V _{in}	V _{out (min)}	V _{out (max)}	P _{out}	η %	Measurements (L x W x H)	Part #
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.	BMR 461 2x01
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.	BMR 461 3x01
	4.5-14	0.6	5	60	97.1	Laydown: 21.0 x 12.7 x 8.2 mm; 0.83 x 0.5 x 0.32 in. SIP: 20.8 x 7.6 x 15.6 mm; 0.82 x 0.30 x 0.61 in.	BMR 462 x002
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.	BMR 461 4x01
20	4.5-14	0.6	5.5	100	96.8	25.7 x 12.9 x 8.2 mm; 1.01 x 0.51 x 0.32 in.	BMR 450 *
	4.5-14	0.6	3.3	66	97.1	Laydown: 26.7 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.	BMR 463 x002, x006
25	4.5-14	0.6	3.3	82.5	97.1	Laydown: 26.7 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.	BMR 463 x008
40	4.5-14	0.6	3.6	132	96.4	30.9 x 20.0 x 8.2 mm; 1.22 x 0.79 x 0.32 in.	BMR 451*
	4.5-14	0.6	3.3	132	97.2	Laydown: 30.9 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.	BMR 464 x002
NEW	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.	BMR 469 (2X 40A)
50	4.5-14	0.6	3.3	165	97.2	Laydown: 30.9 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.	BMR 464 x008
60	4.5-14	0.6	1.8	108	93.6	LGA: 25.0 x 14.0 x 7.0 mm; 0.98 x 0.55 x 0.28 in.	BMR 466 8x04 (DLD)
60	4.5-14	0.6	1.8	108	93.6	LGA: 25.0 x 14.0 x 7.0 mm; 0.98 x 0.55 x 0.28 in.	BMR 466 8x12
80 NEW	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.	BMR 469 (1x80A)
90	7.5-14	0.6	1.8	162	94.3	Laydown: 50.8 x 19.1 x 10.0 mm; 2.00 x 0.75 x 0.39 in. SIP: 50.8 x 9.5 x 19.1 mm; 2.00 x 0.37 x 0.75 in.	BMR 465 x010
120	7.5-14	0.6	1.8	216	93.2	Laydown: 50.8 x 19.1 x 10.4 mm; 2.00 x 0.75 x 0.41 in. SIP: 50.8 x 8.2 x 19.1 mm; 2.00 x 0.32 x 0.75 in.	BMR 467 x010

* Not recommended for new designs

Point of Load - Analog/POLA

Product examples:

PMM



PME



PMP



Point of Load (PoL): Analog/POLA

I _{out}	V _{in}	V _{out} (min)	V _{out} (max)	P _{out}	η %	Measurements (L x W x H)	Part #
2.3	4.5-14	0.9	5.5	12.4	91.4	18.9 x 12.6 x 8.5 mm; 0.75 x 0.50 x 0.34 in.	PMD 5118O
3	3-5.5	0.9	3.6	10.8	93.2	18.9 x 12.6 x 8.5 mm; 0.75 x 0.50 x 0.34 in.	PMD 4118O
6	3.0-3.7	0.55	1.8	10.8	88.9	22.1 x 12.6 x 8.5 mm; 0.87 x 0.50 x 0.34 in.	PME 4118V
	3.0-3.7	0.8	2.5	15	94.7	22.1 x 12.6 x 8.5 mm; 0.87 x 0.50 x 0.34 in.	PME 4118T
	4.5-5.5	0.55	1.8	10.8	87.2	22.1 x 12.6 x 8.5 mm; 0.87 x 0.50 x 0.34 in.	PME 5118V
	4.5-5.5	0.8	3.6	22	94.8	22.1 x 12.6 x 8.5 mm; 0.87 x 0.50 x 0.34 in.	PME 5218T
	10.8-13.2	0.55	1.8	10.8	84	22.1 x 12.6 x 8.5 mm; 0.87 x 0.50 x 0.34 in.	PME 8118V
	10.8-13.2	0.8	1.8	10.8	87.3	22.1 x 12.6 x 8.5 mm; 0.87 x 0.50 x 0.34 in.	PME 8118T
10	10.8-13.2	1.2	5.5	33	89.2	22.1 x 12.6 x 8.5 mm; 0.87 x 0.50 x 0.34 in.	PME 8318L
	3.0-3.7	0.8	2.5	25	94.1	25.3 x 15.8 x 9.0 mm; 0.99 x 0.62 x 0.35 in.	PMF 4218T
	4.5-5.5	0.8	3.6	36	94.8	25.3 x 15.8 x 9.0 mm; 0.99 x 0.62 x 0.35 in.	PMF 5318T
	10.8-13.2	0.8	1.8	18	89.5	25.3 x 15.8 x 9.0 mm; 0.99 x 0.62 x 0.35 in.	PMF 8118T
12	10.8-13.2	1.2	5.5	55	93.1	25.3 x 15.8 x 9.0 mm; 0.99 x 0.62 x 0.35 in.	PMF 8518L
	10.8-13.2	0.8	1.8	21.6	89.3	34.8 x 15.6 x 9.0 mm; 1.37 x 0.62 x 0.35 in.	PMG 8218T
15	10.8-1.2	1.2	5.5	66	92.5	34.8 x 15.6 x 9.0 mm; 1.37 x 0.62 x 0.35 in.	PMG 8618L
	29.5-3.7	0.8	2.5	37.5	94.5	34.8 x 15.6 x 9.0 mm; 1.37 x 0.62 x 0.35 in.	PMG 4318T
16	4.5-5.5	0.8	3.6	54	95.4	34.8 x 15.6 x 9.0 mm; 1.37 x 0.62 x 0.35 in.	PMG 5518T
	4.5-14	0.7	5.5	88	96	22.1 x 18.9 x 8.5 mm; 0.87 x 0.75 x 0.34 in.	PMP 5818UW
18	10.8-13.2	0.8	1.8	32	89.5	37.9 x 22.1 x 9.0 mm; 1.50 x 0.87 x 0.35 in.	PMH 8318T
	10.8-13.2	1.2	5.5	99	92.4	37.9 x 22.1 x 9.0 mm; 1.50 x 0.87 x 0.35 in.	PMH 8918L
22	3.0-3.7	0.8	2.5	55	93.8	37.9 x 22.1 x 9.0 mm; 1.50 x 0.87 x 0.35 in.	PMH 4518T
	4.5-5.5	0.8	3.6	79.2	95.6	37.9 x 22.1 x 9.0 mm; 1.50 x 0.87 x 0.35 in.	PMH 5718T
26	10.8-13.2	0.8	1.8	47	88.2	34.8 x 28.5 x 9.0 mm; 1.37 x 1.12 x 0.35 in.	PMJ 8418T
	10.8-13.2	1.2	5.5	143	92.2	34.8 x 28.5 x 9.0 mm; 1.37 x 1.12 x 0.35 in.	PMJ 8118L
30	3.0-3.7	0.8	2.5	75	94.5	34.8 x 28.5 x 9.0 mm; 1.37 x 1.12 x 0.35 in.	PMJ 4718T
	4.5-5.5	0.8	3.6	108	95.5	34.8 x 28.5 x 9.0 mm; 1.37 x 1.12 x 0.35 in.	PMJ 5918T
	4.5-5.5	0.7	3.6	108	96	34.8 x 15.8 x 8.5 mm; 1.37 x 0.62 x 0.34 in.	PMN 5118U
	5.5-14	0.7	3.6	108	96	34.8 x 15.8 x 8.5 mm; 1.37 x 0.62 x 0.34 in.	PMN 8118UW
40	8.0-14	3	5.25	210	96	38.6 x 25.9 x 10.2 mm; 1.52 x 1.02 x 0.40 in.	PMR 8210
50	8-14	0.8	5.5	275	94.3	51.9 x 26.5 x 9.1 mm; 2.05 x 1.05 x 0.36 in.	PMM 8218T
	4.5-14	0.7	3.6	180	96	38.6 x 25.9 x 10.2 mm; 1.52 x 1.02 x 0.40 in.	PMM 5118UW
60	3.0-5.5	0.8	2.5	150	94	51.9 x 26.5 x 9.1 mm; 2.05 x 1.05 x 0.36 in.	PMM 4218T

Point of Load – Analog/DOSA

Product example:

PMC



Point of Load (PoL): Analog/DOSA

I_{out}	V_{in}	$V_{out (min)}$	$V_{out (max)}$	P_{out}	$\eta \%$	Measurements (L x W x H)	Part #
10	3-5.5	0.8	3.6	36	95.7	33.0 x 13.5 x 8.3 mm; 1.30 x 0.53 x 0.32 in.	PMC 4318T
	8.3-16	0.8	5.5	50	92.3	35.0 x 13.5 x 8.3 mm; 1.30 x 0.53 x 0.32 in.	PMC 8518T
16	3-5.5	0.8	3.6	58	95.4	51.9 x 9.0 x 13.2 mm; 2.01 x 0.35 x 0.52 in.	PMB 4518T *
	8.3-16	0.8	5.5	80	92.8	51.9 x 9.0 x 13.2 mm; 2.01 x 0.35 x 0.52 in.	PMB 8818T *
	3-5.5	0.8	3.6	58	96	34.0 x 13.5 x 8.3 mm; 1.30 x 0.53 x 0.32 in.	PMC 4518T
16	8.3-16	0.8	5.5	80	93.2	36.0 x 13.5 x 8.3 mm; 1.30 x 0.53 x 0.32 in.	PMC 8818T

* Not recommended for new designs

Power Interface Modules (PIM)

Flex Power Modules' range of Power Interface Modules (PIM) simplify the design in blade servers based on AdvancedTCA standards and other applications. Offering features such as EMI filtering, hot-swap, dual feed OR-ing, hold-up management, reverse polarity protection and auxiliary power management rails, the PIM can be used for any industrial or ICT application employing a Distributed Power Architecture.

PIM

Product examples:

PIM 4106



PIM 4328



PIM 4710



Power Interface Modules

I _{out}	V _{in}	V _{out 1}	V _{out 2}	I _{out 2}	V _{out 3}	I _{out 3}	P _{out}	η %	Measurements (L x W x H)	Part #
2.6	36-60	V _{in}	-	-	-	-	100	99.5	33.0 x 22.9 x 8.0 mm; 1.3 x 0.9 x 0.32 in.	PIM 4106
5.1	36-60	V _{in}	-	-	-	-	200	99.5	33.0 x 22.9 x 8.0 mm; 1.3 x 0.9 x 0.32 in.	PIM 4206
7.7	36-60	V _{in}	-	-	-	-	200	99.5	33.0 x 22.9 x 8.0 mm; 1.3 x 0.9 x 0.32 in.	PIM 4306
10.3	36-60	V _{in}	-	-	-	-	400	99.5	33.0 x 22.9 x 8.0 mm; 1.3 x 0.9 x 0.32 in.	PIM 4406
10-12	36-75	V _{in}	3.3	3.6	5	0.2	390-540	99	57.9 x 36.8 x 13.7 mm; 2.28 x 1.45 x 0.59 in.	PIM 4328P (ATCA compliant)
	36-75	V _{in}	3.3	3.6	5	0.2	390-540	99	57.9 x 36.8 x 13.7 mm; 2.28 x 1.45 x 0.59 in.	PIM 4328PD/PDA (ATCA compliant)
16.5-20	36-75	V _{in}	0.9-7	5	-	-	960-1080	99.2	57.9 x 36.8 x 13.7 mm; 2.28 x 1.45 x 0.59 in.	PIM 4820
16 NEW	36-75	V _{in}	3.3	3.6-7	-	-	600	98.9	57.9 x 36.8 x 13.7 mm; 2.28 x 1.45 x 0.59 in.	PIM 4610 (ATCA compliant)
20 NEW	36-75	V _{in}	3.3	3.6-7	-	-	780	98.8	57.9 x 36.8 x 13.7 mm; 2.28 x 1.45 x 0.59 in.	PIM 4710 (ATCA compliant)

Application Specific Products

Flex Power Modules has a long history of serving the ICT Industry. We have a traditional Telecom and Datacom product offering, but we are also extending our product portfolio to cover other alternate markets, including devices specifically focused on Industrial and Railway/Transportation applications.

Industrial and Railway

Product examples:

PKE



PKM-A



PKE-A



Application Specific Products: Industrial and Railway

V _{out 1}	V _{in}	I _{out1}	V _{out2}	I _{out2}	P _{out}	η %	Measurements (L x W x H)	Part #
1.8	36-75	5	-	-	9	83	47.8 x 28.1 x 8.0 mm; 1.88 x 1.11 x 0.32 in.	PKR 4918B
2.5	36-75	4.4	-	-	11	85	47.8 x 28.1 x 8.0 mm; 1.88 x 1.11 x 0.32 in.	PKR 4919B
3.3	9-36	0.5	-	-	1.7	73	31.8 x 20.3 x 10.7 mm; 1.25 x 0.80 x 0.42 in.	PKV 3110
	18-72	0.5	-	-	1.7	73	31.8 x 20.3 x 10.7 mm; 1.25 x 0.80 x 0.42 in.	PKV 5110
	18-75	1.5	-	-	5	79	47.8 x 28.1 x 8.0 mm; 1.88 x 1.11 x 0.32 in.	PKR 5510
	18-36	2	-	-	6.6	82	47.8 x 28.1 x 8.0 mm; 1.88 x 1.11 x 0.32 in.	PKR 2610A
	36-75	3	-	-	9.9	80	47.8 x 28.1 x 8.0 mm; 1.88 x 1.11 x 0.32 in.	PKR 4910A
	9-36	4.5	-	-	15	84.6	25.4 x 25.4 x 10.8 mm; 1.00 x 1.00 x 0.43 in.	PKE 3210
	18-75	4.5	-	-	15	84.1	25.4 x 25.4 x 10.8 mm; 1.00 x 1.00 x 0.43 in.	PKE 5210
	36-75	4.5	-	-	15	85	47.8 x 28.1 x 8.0 mm; 1.88 x 1.11 x 0.32 in.	PKR 4110B
	36-75	1.5	5	1.4	12	90.8	47.8 x 28.1 x 8.0 mm; 1.88 x 1.11 x 0.32 in.	PKR 4128B (dual output)
36-75	2.1	5	0.5	9.5	81.9	47.8 x 28.1 x 8.0 mm; 1.88 x 1.11 x 0.32 in.	PKR 4928A (dual output)	
5	9-36	0.5	-	-	2.5	82	31.8 x 20.3 x 10.7 mm; 1.25 x 0.80 x 0.42 in.	PKV 3211
	18-72	0.5	-	-	2.5	82	31.8 x 20.3 x 10.7 mm; 1.25 x 0.80 x 0.42 in.	PKV 5211
	18-75	1.2	-	-	6	83	47.8 x 28.1 x 8.0 mm; 1.88 x 1.11 x 0.32 in.	PKR 5611
	18-36	2	-	-	10	85	47.8 x 28.1 x 8.0 mm; 1.88 x 1.11 x 0.32 in.	PKR 2111A
	9-36	3	-	-	15	88	25.4 x 25.4 x 10.8 mm; 1.00 x 1.00 x 0.43 in.	PKE 3211
	18-75	3	-	-	15	84.3	25.4 x 25.4 x 10.8 mm; 1.00 x 1.00 x 0.43 in.	PKE 5211
	36-75	3	-	-	15	83.5	47.8 x 28.1 x 8.0 mm; 1.88 x 1.11 x 0.32 in.	PKR 4211A
	66-160	20	-	-	100	86	57.91 x 36.8 x 12.7 mm; 2.28 x 1.45 x 0.50 in.	PKM 7111A PIP
	9-36	0.3	-5	0.3	2.5	82	31.8 x 20.3 x 10.7 mm; 1.25 x 0.80 x 0.42 in.	PKV 3222 (dual output)
18-72	0.3	-5	0.3	2.5	82	31.8 x 20.3 x 10.7 mm; 1.25 x 0.80 x 0.42 in.	PKV 5222 (dual output)	
7.1	36-75	2.2	-	-	15	83	47.8 x 28.1 x 8.0 mm; 1.88 x 1.11 x 0.32 in.	PKR 4117A

V _{out1}	V _{in}	I _{out1}	V _{out2}	I _{out2}	P _{out}	η %	Measurements (L x W x H)	Part #
12	18-72	0.2	-	-	3	82	31.8 x 20.3 x 10.7 mm; 1.25 x 0.80 x 0.42 in.	PKV 5313
	9-36	0.3	-	-	3	82	31.8 x 20.3 x 10.7 mm; 1.25 x 0.80 x 0.42 in.	PKV 3313
	18-75	0.9	-	-	11	86	47.8 x 28.1 x 8.0 mm; 1.88 x 1.11 x 0.32 in.	PKR 5113
	18-36	1	-	-	12	87.5	47.8 x 28.1 x 8.0 mm; 1.88 x 1.11 x 0.32 in.	PKR 2113A
	9-36	1.3	-	-	15	86.5	25.4 x 25.4 x 10.8 mm; 1.00 x 1.00 x 0.43 in.	PKE 3213
	18-75	1.3	-	-	15	86.3	25.4 x 25.4 x 10.8 mm; 1.00 x 1.00 x 0.43 in.	PKE 5213
	9-36	2.5	-	-	30	88	50.8 x 25.4 x 11.9 mm; 2.00 x 1.00 x 0.47 in.	PKE 3313A
	66-160	8.3	-	-	100	86	57.9 x 36.8 x 12.7 mm; 2.28 x 1.45 x 0.50 in.	PKM 7113A PIP
	66-160	12.5	-	-	150	86	57.9 x 36.8 x 12.7 mm; 2.28 x 1.45 x 0.50 in.	PKM 7213A PIP
	9-36	0.1	-12	0.1	3	82	31.8 x 20.3 x 10.7 mm; 1.25 x 0.80 x 0.42 in.	PKV 3321 (dual output)
	18-72	0.1	-12	0.1	3	82	31.8 x 20.3 x 10.7 mm; 1.25 x 0.80 x 0.42 in.	PKV 5321 (dual output)
	18-36	0.6	-12	0.6	14.9	86.6	47.8 x 28.1 x 8.0 mm; 1.88 x 1.11 x 0.32 in.	PKR 2221A (dual output)
	36-75	0.6	-12	0.6	15	86.5	47.8 x 28.1 x 8.0 mm; 1.88 x 1.11 x 0.32 in.	PKR 4221A (dual output)
	15	9-36	0.2	-	-	3	82	31.8 x 20.3 x 10.7 mm; 1.25 x 0.80 x 0.42 in.
18-72		0.2	-	-	3	82	31.8 x 20.3 x 10.7 mm; 1.25 x 0.80 x 0.42 in.	PKV 5315
9-36		1	-	-	15	85.8	25.4 x 25.4 x 10.8 mm; 1.00 x 1.00 x 0.43 in.	PKE 3215
18-75		1	-	-	15	84.4	25.4 x 25.4 x 10.8 mm; 1.00 x 1.00 x 0.43 in.	PKE 5215
66-160		6.7	-	-	100	88	57.9 x 36.8 x 12.7 mm; 2.28 x 1.45 x 0.50 in.	PKM 7115A PIP
66-160		10	-	-	150	88	57.9 x 36.8 x 12.7 mm; 2.28 x 1.45 x 0.50 in.	PKM 7215A PIP
9-36		0.1	-15	0.1	3	80	31.8 x 20.3 x 10.7 mm; 1.25 x 0.80 x 0.42 in.	PKV 3325 (dual output)
18-72		0.1	-15	0.1	3	82	31.8 x 20.3 x 10.7 mm; 1.25 x 0.80 x 0.42 in.	PKV 5325 (dual output)
24	9-36	1.3	-	-	30	90	25.4 x 25.4 x 10.8 mm; 1.00 x 1.00 x 0.43 in.	PKE3316Z
	66-160	4.2	-	-	100	89	57.9 x 36.8 x 12.7 mm; 2.28 x 1.45 x 0.50 in.	PKM 7116ZA PIP
	66-160	6.3	-	-	150	89	57.9 x 36.8 x 12.7 mm; 2.28 x 1.45 x 0.50 in.	PKM 7216ZA PIP
48	66-160	2.1	-	-	100	90	57.9 x 36.8 x 12.7 mm; 2.28 x 1.45 x 0.50 in.	PKM 7116JA PIP

Software

Flex Power Modules offers internally developed software tools, which help our customers optimize, sketch and simulate their power systems.

Flex Power Designer

Software used to sketch and simulate future power systems as well as to configure and take away your existing digital power system. The software is available as a free download from Flex Power Modules' homepage.

SMBus Tool

A production tool used to perform module configuration in a production environment.

Evaluation Boards + Accessories

Evaluation boards and accessories include test boards and other useful tools for customer evaluation of our power modules.

Evaluation Boards

PoL Evaluation Board



PoL SIP Evaluation Board



PoL BMR461 paralleling Evaluation Board



PoL BMR465 paralleling Evaluation Board



PoL BMR466 paralleling Evaluation Board



IBC Evaluation Board



PIM Evaluation Board



PoL BMR469 Evaluation Board



Evaluation Boards

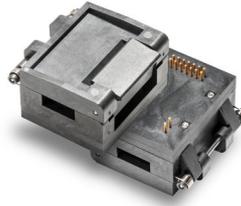
Name	Part Number	Product	General Info
PoL Evaluation Board	ROA 128 3836	POL Design Board	This board can host: 2xBMR464 or 2xBMR45, 12xBMR463 or 2xBMR450, 2xBMR462
PoL SIP Evaluation Board	ROA 128 5068	POL Design Board for SIP version	This board can host: 3xBMR464, 3xBMR463, 2xBMR462
PoL BMR461 Evaluation Board	ROA 170 03 ROA 170 26	POL BMR461 Design Board POL BMR461 Simple Evaluation Board (small sized board)	This board can host: BMR461
PoL BMR465 Paralleling Evaluation Board	ROA 170 64	POL Design Board for paralleling configuration, BMR465	This board can host: 2xBMR465 or 2xBMR467 in parallel
PoL BMR466 Paralleling Evaluation Board	ROA 170 44/2B ROA 170 44/4B	POL Design Board for paralleling configuration, BMR466	This board can host: 2 x BMR4668x04 in parallel 4 x BMR4668x12 in parallel
IBC Evaluation Board	ROA 128 3835	IBC Design Board	This board can host: 2xBMR453, 2xBMR454, 2xBMR456, 2xBMR457 or 2xBMR458
PIM Evaluation Board	ROA 128 5151	PIM Design Board	This board can host: PIM 4820B, PIM 4328PD or PIM 4328PDA
PoL BMR469 Evaluation Board	ROA 170 111	POL BMR469 Design Board	This board can host: One BMR469 module with Dual Output configuration and one BMR469 module with Single Output configuration

Accessories

USB-PMBus adapter and cable



Zero insertion force adapter

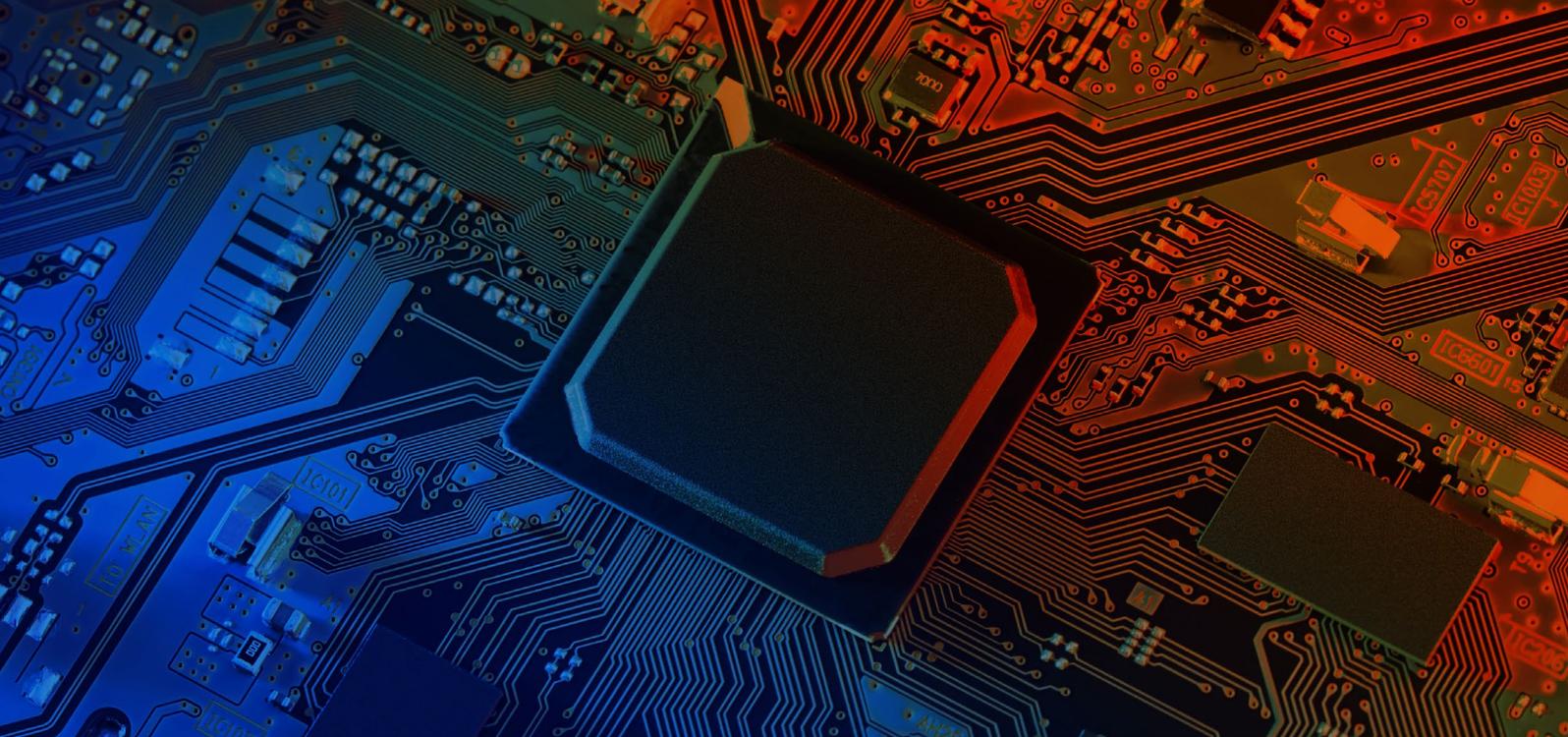


Electronic Load



Accessories

Accessory	Part Number	Product
USB-PMBus Adapter and Cable	FAB 802 0785	USB-PMBus Adapter and cable
Zero Insertion Force Adapter	RNK 171 4640 RNK 171 4641	BMR464 Adapter, through-hole pins BMR464 Adapter, surface mount pins
Electronic Load	ROA 128 5552	Electronic Loads with PMBus interface



For more information, please visit www.flex.com/powermodules.

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ENG-BRO-1-001-00 V1

