



Product Series Overview – Specialized Application Modules

Direct Conversion

BMR481

Description: BMR 481 is the first product released within the new technology Direct Conversion. It has a small form factor and high efficiency with 92%. The complete power supply system includes one Main unit and up to 5 Satellite units (in total 1-6 phases/420 A).

Series name	Vin Range (VDC)	Vout Nominal (VDC)	Iout (A)	Efficiency (%)	Size: LxWxH (mm)
BMR4810021/002	40-60V	1.0V	70	92%	27.2 x 12 x 14.6 mm (main) 27.7 x 12 x 12.6 (satellite)
BMR481 0022	40-60V	1.0V	70	92%	

Industrial and Railway Module

PKE

Description: 1"x1" encapsulated DC/DC converter with wide input voltage for industrial and Railway application

Series name	Vin Range (VDC)	Vout Nominal (VDC)	Iout (A)	Power (W)	Efficiency (%)	Package	Size: LxWxH (mm)
PKE3210 PI	9-36	3.3	4.5	15	84.6	1" x 1" Industry-standard Through hole	25.4 x 25.4 x 10.8mm (1.0 x 1.0 x 0.43 inch)
PKE3211 PI	9-36	5	3	15	88		
PKE3213 PI	9-36	12	1.25	15	86.5		
PKE3215 PI	9-36	15	1	15	85.8		
PKE3316ZPI	9-36	24	1.25	30	90		
PKE5210 PI	18-75	3.3	4.5	15	84.1		
PKE5211 PI	18-75	5	3	15	84.3		
PKE5213 PI	18-75	12	1.25	15	86.3		
PKE5215 PI	18-75	15	1	15	84.4		



PKE-A

Description: 1"x2" encapsulated DC/DC Converter with wide input voltage for industrial and Railway application

Series name	Vin Range (VDC)	Vout Nominal (VDC)	Iout (A)	Power (W)	Efficiency (%)	Package	Size: LxWxH (mm)
PKE3313A PI	9-36	12	2.5	30	89	1" x 2" Industry-standard Through hole	50.8 x 25.4 x 11.9 mm (2.0 x 1.0 x 0.47 inch)
PKE8413A PI	9-75	12	3.33	40	91	1" x 2" Industry-standard Through hole	50.8 x 25.4 x 11.9 mm (2.0 x 1.0 x 0.47 inch)

PKM-A

Description: Quarter Brick encapsulated DC/DC converter with wide input voltage for industrial and Railway application

Series name	Vin Range (VDC)	Vout Nominal (VDC)	Iout (A)	Power (W)	Efficiency (%)	Package	Size: LxWxH (mm)
PKM7111A PIP	66-160	5	20	100	86	1/4 Brick Through hole	57.9 x 36.8 x 12.7 mm (2.28 x 1.45 x 0.5 in)
PKM7113A PIP	66-160	12	8.33	100	86		
PKM7115A PIP	66-160	15	6.66	100	86		
PKM7116ZA PIP	66-160	24	4.16	100	89		
PKM7116JA PIP	66-160	48	2.08	100	90		
PKM7213A PIP	66-160	12	12.5	150	86		
PKM7215A PIP	66-160	15	10	150	88		
PKM7216ZA PIP	66-160	24	6.25	150	89		

PKV

Description: Built in the industry-standard DIL 24 format encapsulated DC/DC converter with wide input voltage range of 4:1 for industrial and Railway application



Series name	Vin Range (VDC)	Vout Nominal (VDC)	Iout (A)	Power (W)	Efficiency (%)	Package	Size: LxWxH (mm)
PKV3110 PI	9-36	3.3	0.5	1.65	73	Industry-standard DIL 24	31.8 x 20.3 x 10.7 mm (1.25 x 0.80 x 0.42 in)
PKV3211 PI	9-36	5	0.5	2.5	82		
PKV3313 PI	9-36	12	0.25	3	82		
PKV3315 PI	9-36	15	0.2	3	82		
PKV3222 PI	9-36	5/-5	0.25	2.5	82		
PKV3321 PI	9-36	12/-12	0.125	3	82		
PKV3325 PI	9-36	15/-15	0.1	3	80		
PKV5110 PI	18-72	3.3	0.5	1.65	73		
PKV5211 PI	18-72	5	0.5	2.5	82		
PKV5313 PI	18-72	12	0.25	3	82		
PKV5315 PI	18-72	15	0.2	3	82		
PKV5222PI	18-72	5/-5	0.25	2.5	82		
PKV5321 PI	18-72	12/-12	0.125	3	82		
PKV5325 PI	18-72	15/-15	0.1	3	82		

RFPA Module

PKU-C RFPA

Description: PKU-C is 100W isolated DC/DC converter in an industry standard sixteenth Brick package for RFPA application

Series name	Vin Range (VDC)	Vout Nominal (VDC)	Iout (A)	Power (W)	Efficiency (%)	Package	Size: LxWxH (mm)
PKU4116C	36-75	30	3.3	100	92.0	1/16 Brick Through hole, SMD	33 x 22.9 x 9.6 mm (1.3 x 0.9 x 0.38 in)
PKU4416Z	28-60	24	1.8	43.2	88.3		

PKB-C RFPA

Description: PKB-C is 200W isolated DC/DC converter in an industry standard eighth Brick package for RFPA application

Series name	Vin Range (VDC)	Vout Nominal (VDC)	Iout (A)	Power (W)	Efficiency (%)	Package	Size: LxWxH (mm)
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PKB4216C	36-75	30	6.7	200	94.2	1/8 Brick Through hole, SMD	58.40 x 22.70 x 8.60 mm (2.3 x 0.89 x 0.34 in)
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PKJ

Description: PKJ is 700W isolated DC/DC converter in an industry standard half Brick package for RFPA application

Series name	Vin Range (VDC)	Vout Nominal (VDC)	Iout (A)	Power (W)	Efficiency (%)	Package	Size: LxWxH (mm)
PKJ4716APIHS	36-75	28	25	700	96.2	Half-Brick Through hole	61.0 x 57.9 x 12.7 mm (2.4 x 2.28 x 0.50 in)
PKJ4716HPIHS	36-75	50	14	700	96.3		

PKB-D RFPA

Description: PKB-D is 250W isolated DC/DC converter in an industry standard eighth Brick package for RFPA applications.

Series name	Vin Range (VDC)	Vout Nominal (VDC)	Iout (A)	Power (W)	Efficiency (%)	Package	Size: LxWxH (mm)
PKB4216HD	36-60	50	5	250	94.5	1/8 Brick Through hole	58.4 x 22.7 x 13.2 mm (2.3 x 0.89 x 0.52 in)

Power Interface Module

PIM 4006



Description: PIM 4006 is a 100-400 W power interface module (PIM) in an industry standard Sixteenth-brick. It offers inrush protection and hot-swap functionality, FET failure detection and monitoring of the board input power via I2C/PMBus interface

Series name	Vin Range (VDC)	Vout Nominal (VDC)	Iout (A)	Power (W)	Efficiency (%)	Package	Size: LxWxH (mm)
PIM 4106SD	36-60	Vin	2.56	100	99.3	1/16 Brick	33.0 x
PIM 4206SD	36-60	Vin	5.12	200	99.5	Through hole	22.9 x 8.0
PIM 4306SD	36-60	Vin	7.69	300	99.5		mm (1.3 x
PIM 4406SD	36-60	Vin	10.3	400	99.5		0.9 x
							0.315 in)



PIM 4820

Description: PIM 4820 is a 960-1080 W power interface module (PIM) compliant with the 800 W de facto industry-standard footprint. The quarter-brick PIM4820PD is designed for high power datacom application with downstream high power bus converter. Complying with Advanced TCA (PICMG 3.0) systems, PIM 4820 also supports PMBus communication with a PMBus interface inside

Series name	Vin Range (VDC)	Vout1 (VDC)	Lout1 (A)	Vout2 (VDC)	Lout2 (A)	Power (W)	Efficiency (%)	Package	Size: LxWxH (mm)
PIM 4820	36-75	Vin	16.5-20	0.85-7	5	960-1080	99.2	1/4 Brick Through hole	57.9 x 36.8 x 13.7 mm (2.28 x 1.45 x 0.539 in)

PIM 4328

Description: PIM 4328 is a 390-540 W power interface module (PIM) compliant with the 300 W de facto industry-standard footprint. The quarter-brick PIM4328P is optimized to simplify design in blade servers based on Advanced TCA (PICMG 3.0) systems

Series name	Vin Range (VDC)	Vout1 (VDC)	Lout1 (A)	Vout2 (VDC)	Lout2 (A)	Vout3 (VDC)	Lout3 (A)	Power (W)	Efficiency (%)	Package	Size: LxWxH (mm)
PIM 4328P	36-75	Vin	10-12	3.3	3.6	5	0.15	390-540	99	1/4 Brick Through hole	57.9 x 36.8 x 10.7 mm (2.28 x 1.45 x 0.42 in)
PIM4328PD/PDA	36-75	Vin	10-12	3.3	3.6	5	0.15	390-540	99		



PIM 4010

Description: PIM 4710 series is a 600-780W power interface module (PIM) family compliant with the PIM 4328 de facto industry-standard footprint. The quarter-brick PIM series is optimized to simplify design in blade servers based on Advanced TCA (PICMG 3.7) systems

Series name	Vin Range (VDC)	Vout1 (VDC)	Lout1 (A)	Vout2 (VDC)	Lout2 (A)	Power (W)	Efficiency (%)	Package	Size: LxWxH (mm)
PIM 4610	36-75	Vin	16	3.3	3.6-7	600	98.8	1/4 Brick Through hole	57.9 x 36.8 x 20.3 mm (2.28 x 1.45 x 0.80 in)
PIM 4710	36-75	Vin	20	3.3	3.6-7	780	98.8		