

Digital DC/DC Converters

BMR453

Description: First generation digital quarter-brick power modules feature unprecedented output characteristics including tight regulation, programmable, high efficiency and a wide output range



Series name	Vin Range (VDC)	Vout Nominal (VDC)	Iout (A)	Power (W)	Efficiency (%)	Package	Size: LxWxH (mm)
BMR4530002/003	36-75	3.3	60	198	94.9	1/4Brick Through hole, SMD	57.9 x 36.8 x 11.6 mm (2.28 x 1.45 x 0.46 in)
BMR4530002/004	36-75	5	60	300	96.1		

BMR453 STACKED

Description: Quarter-brick format combines two BMR453 series bus converters to deliver exceptional power density and tightly controlled output voltages



Series name	Vin Range (VDC)	Vout Nominal (VDC)	Iout (A)	Power (W)	Efficiency (%)	Package	Size: LxWxH (mm)
BMR4530108/014	44-75	12.45	60	711	96.7	1/4Brick Through hole	57.9 x 36.8 mm (2.28 x 1.45 in) Hole mount - Stacker - Base plate - GND version (24.5mm)

BMR454

Description: The first generation digital Eighth Brick power module features unprecedented output characteristics, including tight regulation, high efficiency, wide output range and impressive thermal-derating characteristics.



Series name	Vin Range (VDC)	Vout Nominal (VDC)	Iout (A)	Power (W)	Efficiency (%)	Package	Size: LxWxH (mm)
BMR4540002/003	36-75	3.3	40	132	93.2	1/4Brick Through hole	58.4 x 22.7 x 10.2 mm (2.3 x 0.89 x 0.40 in)
BMR4530002/004	36-75	5	38	190	94.5		

BMR456

Description: The second generation digital Quarter Brick digital power modules, BMR456, feature unprecedented output characteristics including tight regulation, a wide output range ready to power dynamic bus architectures, high efficiency flat curve from low-load to high-load and built-in DC/DC Energy Optimizer.



Device	Vin Range (VDC)	Vout Nominal (VDC)	Iout (A)	Power (W)	Efficiency (%)	Package	Size: LxWxH (mm)
BMR4560004/004	36-75	9	35	315	96.4	1/14Brick Through hole, SMD	57.9 x 36.8 x 11.6 mm (2.28 x 1.45 x 0.46 in)
BMR4560004/001	36-75	12	35	420	95.3		
BMR4560004/014	36-75	12.45	35	415	96.4		
BMR4560000/003	36-60	9	39	351	95.9		
BMR4560000/002	40-60	12	39	468	96.8		
BMR4560011/017	40-60	12.45	39	462	96.8		



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Flex Power Designer Software

Sketch, simulate, configure and monitor your digital power system with the Flex Power Designer software.

Safety Approvals

Design for Environment





BMR457

Description: The second generation digital Eighth Brick digital power modules, BMR457, feature unprecedented output characteristics including tight regulation, a wide output range ready to power dynamic bus architectures, high efficiency flat curve from low-load to high-load and built-in DC/DC Energy Optimizer.

Device	Vin Range (VDC)	Vout Nominal (VDC)	Iout (A)	Power (W)	Efficiency (%)	Package	Size: LxWxH (mm)
BMR4570004/001	36-75	12	22	264	95.2	1/8 Brick Through hole, SMD	58.4 x 22.7 x 10.2 mm (2.3 x 0.89 x 0.40 in)
BMR4570007/014	36-75	12.45	22	261	95.2		
BMR4570000/002	40-60	12	25	300	95.1		
BMR4570011/017	40-60	12.45	25	296	95.1		



BMR458

Description: The third generation digital Quarter Brick power modules, BMR458 series, builds on new technology and adds benefits such as an optional communication interface (PMBus)

Device	Vin Range (VDC)	Vout Nominal (VDC)	Iout (A)	Power (W)	Efficiency (%)	Package	Size: LxWxH (mm)
BMR4580011/002	40-60	12	54.2	650	96.3	1/14 Brick Through hole, SMD	57.93 x 36.8 x 11.2 mm (2.28 x 1.45 x 0.44 in)
BMR4580011/017	40-60	12.45	54.2	650	96.3		
BMR4580002/003	40-60	12	50	600	96.3		
BMR4580002/014	40-60	12.45	50	600	96.3		
BMR4580030/004	40-60	12	54.2	650	96.6		
BMR4580030/020	40-60	12.45	54.2	650	96.6		



BMR480

Description: The fourth generation digital Quarter Brick power modules, BMR480 series, delivers up to 1300W at 12V in a standard quarter-brick footprint incorporating a PMBus digital interface (4-pin or 7-pin selectable), suitable for ICT applications like cloud computing, data center etc.

Device	Vin Range (VDC)	Vout Nominal (VDC)	Iout (A)	Power (W)	Efficiency (%)	Package	Size: LxWxH (mm)
BMR4803114/001	40-60	10.4	96.2	1000	96.3	1/4 Brick Through hole with baseplate	58.4 x 36.8 x 12.19 mm (2.3 x 1.45 x 0.47 in.)
BMR480100/001	45-56	10.4	96.2	1000	96.3		
BMR480100/017	45-56	10.4	96.2	960	96.3		
BMR480102/002	40-60	12	75	900	96.3		
BMR480102/032	40-60	12.1	75	900	96.6		
BMR480106/005	45-60	12	108.3	1300	96.6		



BMR490

Description: The fifth generation digital Quarter Brick power modules, BMR490 series, delivers up to 1300W at 12V in a standard quarter-brick footprint incorporating a PMBus digital interface (4-pin or 7-pin selectable), suitable for ICT applications like cloud computing, data center etc.

Device	Vin Range (VDC)	Vout Nominal (VDC)	Iout (A)	Power (W)	Efficiency (%)	Package	Size: LxWxH (mm)
BMR4903317/820	40-60	12	139	1300	97.7	1/4 Brick Through hole with baseplate	58.4 x 36.8 x 14.5 mm (2.3 x 1.45 x 0.57 in.)



IBC Evaluation Board :
ROA 128 3835



USB-PMBus Adapter and Cable :
FAB 802 0785



Flex Product Selection Guide



Design Support Documentation

