



Product Selection Guide

2014



Selection Table of Isolated Brick Converters (By Input Voltage Range)

Vin (V)	Output Power(W)	Package	Series	Output Voltage
40-60	600-720	1/4 th	QBE4	12V
36-75	33-40	1/32 th	MRS4	3.3V, 5V, 12V
	15-100	1/16 th	SRS4	1.0V, 1.2V, 1.5V, 1.8V, 2.5V, 3.3V, 5V, 8V, 12V, 15V, 28V
	20-140	1/8 th	ERS4	1.0V, 1.2V, 1.5V, 1.8V, 2.5V, 3.3V, 5V, 9V, 12V, 15V, 28V, 32V
	175-264	1/8 th	EBC4	3.3V, 5V, 12V
	70-204	1/4 th	QPS4	1.0V, 1.2V, 1.5V, 1.8V, 2.5V, 3.3V, 5V, 12V
	290-720	1/4 th	QBC4	5V, 9.6V, 12V
	70-204	Half	HRS4	1.2V, 1.5V, 1.8V, 2.5V, 3.3V, 5V, 12V
	264-476	Half	HPS4	3.3V, 5V, 12V, 28V
18-75	700-800	Full	FPS4	28V, 30V
	33-60	1/16 th	SRS3-W	3.3V, 5V, 8V, 12V, 15V
	45-120	1/8 th	ERS3-W	3.3V, 5V, 8V, 12V, 28V
18-60	96-228	1/4 th	QPS3-W	3.3V, 5V, 12V, 15V, 28V, 48V
	33-75	1/16 th	SRS3	3.3V, 5V, 12V, 15V
	45-116	1/8 th	ERS3	3.3V, 5V, 8V, 12V, 32V
18-36	72-204	1/4 th	QPS3	3.3V, 5V, 12V
	36-40	1/32 th	MRS2	5V, 12V
	33-96	1/16 th	SRS2	3.3V, 5V, 8V, 12V, 15V, 28V
	49-140	1/8 th	ERS2	3.3V, 5V, 8V, 12V, 28V
	30-125	1/4 th	QRS2	3.3V, 5V, 12V
	72-204		QPS2	3.3V, 5V, 6V, 12V, 28V, 48V
	250		QBC2	5V
456-504	1/2 th	HPS2	12V, 28V, 48V	
9-75	84	1/4 th	QPS5	12V
9-36	24-60	1/16 th	SRS1	3.3V, 5V, 8V, 12V, 15V
	60-200	1/4 th	QPS1	3.3V, 5V, 12V, 48V

Selection Table of Isolated Brick Converters (By Brick Size)

Package	Series	Vin (V)	Output Power (W)	Output Voltage
1/32 Brick	MRS4	36 - 75	33-40	3.3V, 5V, 12V
	MRS2	18-36	36-40	5V,12V
1/16 Brick	SRS4	36 - 75	15-100	1.0V, 1.2V, 1.5V, 1.8V, 2.5V, 3.3V, 5V, 8V, 12V, 15V, 28V
	SRS3	18- 60/75	24-75	3.3V, 5V, 8V, 12V, 15V
	SRS2	18 - 36	33-96	3.3V, 5V, 8V,12V, 15V, 28V
	SRS1	9 - 36	24-60	3.3V, 5V, 8V, 12V, 15V
1/8 Brick	ERS4	36 - 75	20-140	1.0V, 1.2V, 1.5V, 1.8V, 2.5V, 3.3V, 5V, 9V, 12V, 15V, 28V, 32V
	ERS3	18 - 60/75	45-120	3.3V, 5V, 8V, 12V, 28V, 32V
	ERS2	18 - 36	49-140	3.3V, 5V, 8V, 12V, 28V
	EBC4	36 - 75	175-264	3.3V, 5V, 12V
1/4 Brick	QPS5	9 - 75	84	12V
	QPS4	36 - 75	56-204	1.0V, 1.2V, 1.5V, 1.8V, 2.5V, 3.3V, 5V, 12V
	QBC4	36 - 75	290-720	5V, 9.6V, 12V
	QBE4	40 - 60	600-720	12V
	QPS3	18 - 60/75	72-228	3.3V, 5V, 12V, 15V, 28V, 48V
	QRS2	18 - 36	30- 125	3.3V, 5V, 12V
	QPS2	18 - 36	72-204	3.3V, 5V, 6V, 12V, 28V, 48V
	QBC2	18 - 36	250	5V
1/2 Brick	HRS4	36 - 75	70-204	1.2V, 1.5V, 1.8V, 2.5V, 3.3V, 5V, 12V
	HPS4	36 - 75	80-504	3.3V, 5V, 12V, 28V
	HPS2	18-36	456-504	12V,28V,48V
Full Brick	FPS4	36 - 75	700-800	28V, 30V

Selection Table of Non-Isolated Converters-POL (By Input Voltage Range)

Vin (V)	Series	Output Voltage (V)	Output Current (A)	Package	Size(in)
2.5-5.5	NAT0	0.75-3.63	12-20	SIP	2.00x0.50x0.25
	NAS0	0.75-3.63	12-20	SMT	1.30x0.53x0.25
	NBS0	0.75-3.63	8	SMT	1.10x0.45x0.25
4.5-14	NKS1	0.59-5.5	6-12	SMT	0.48x0.48x0.32
8.0-14	NHT1	0.5-1.6	100	SMT,SIP, Horizontal TH	2.00x1.10x0.64
8.0-16	NCT1	0.8-5.0	45-60	SIP, Horizontal TH	2.00x0.68x0.45
8.5-16	NBS1	0.75-5.5	8	SMT	1.10x0.45x0.25
8.5-18	NAT1	0.75-5.5	12-20	SIP	2.00x0.50x0.25
	NAS1	0.75-5.5	12-20	SMT	1.30x0.53x0.25
	NET1	0.75-5.5	16-30	SIP	2.00x0.50x0.38
	NES1	0.75-5.5	16-30	SMT	1.30x0.53x0.38
9-36	NAT2	3-6	10	SIP	2.00x0.50x0.25
	NAS2	3-6	10	SMT	1.30x0.53x0.25
	NBS2	3-6	3.5	SMT	1.10x0.45x0.25
	NZT2	18-36	150W-200W	Horizontal TH	1.46x1.13x0.40
18-36	NAT3	5-15.5	9	SIP	2.00x0.50x0.25
	NAS3	5-15.5	9	SMT	1.30x0.53x0.25
	NBS3	5-15.5	3.5	SMT	1.10x0.45x0.25

Selection Table of Non-Isolated Converters-POL (By Package Size)

Package	Size (in)	Series	Vin (V)	Output Voltage (V)	Output Current (A)
SMT	1.30x0.53x0.25	NAS0	2.5-5.5	0.75-3.63	12A, 20A
		NAS1	8.5-18	0.75-5.5	12A, 20A
		NAS2	9-36	3-6	10A
		NAS3	18-36	5-15.5	9A
SMT	1.10x0.45x0.25	NBS0	2.5-5.5	0.75-3.63	8A
		NBS1	8.5-16	0.75-5.5	8A
		NBS2	9-36	3-6	3.5A
		NBS3	18-36	5-15.5	3.5A
SMT	1.30x0.53x0.38	NES1	8.5-18	0.75-5.5	16A, 30A
SMT	0.48x0.48x0.32	NKS1	4.5-14	0.59-5.5	6A, 12A
SIP	2.00x0.50x0.25	NAT0	2.5-5.5	0.75-3.63	12A, 20A
		NAT1	8.5-16	0.75-5.5	12A, 20A
		NAT2	9-36	3-6	10A
		NAT3	18-36	5-15.5	9A
SIP	2.00x0.50x0.38	NET1	8.5-18	0.75-5.5	16A, 30A
SIP, Horizontal TH	2.00x0.68x0.45	NCT1	8-16	0.8-5.0	45A, 60A
SMT, SIP, Horizontal TH	2.00x1.10x0.64	NHT1	8-14	0.5-1.6	100A
Horizontal TH	1.46x1.13x0.4	NZT2	9-36	18-36	150W, 200W

Part Numbering

□□□	□	□□□	□	□□□	□	□	□
Series Name	Typical Input Voltage	Typical Output Voltage	Enabling Logic	Rated Output Current	Pin Length ^①	Electrical Options ^①	Mechanical Options ^{①②}
MRS SRS ERS EBC QRS QPS QBC QBE HRS HPS FPS	5: 32V 4: 48V 3: 36V 2: 24V 1: 18V	Examples: 033 = 3.3V 050 = 5.0V 120 = 12.0V	P: Positive N: Negative	Examples: 100 = 100A 060 = 60A 007 = 7A	K: 0.110" H: Dual "K" Pin N: 0.145" P: Dual "N" Pin R: 0.180" T: Dual "R" Pin S: SMT Pin	0 or 5: Latch-off 1 or 6: Parallel & Latch-off 2 or 7: Auto Restart 8: Trim & Latch-off 9: Trim & Auto Restart A: Parallel & Auto Restart	5: Open Frame (ROHS6) 6: Baseplate (ROHS6) 8: Baseplate with Case Pin (ROHS6)

① Use the following table for the available pin length, electrical and mechanical options in each product series. Consult the factory for details.

1. Dual Pin option is only available for selected high current codes.
2. SMT version is only available for selected codes.
3. Long shoulder pins may be offered upon approval.
4. Without special notice, the output trim up range is 10% and trim down range is 20% from the specified typical output voltage.

② We offer encapsulated package. Consult the factory for details.

Available Options

Product Series	Pin Length Options	Electrical Options	Mechanical Options
MRS	K, N, R	0, 2	5, 6
SRS	K, N, R	0, 2	5, 6
ERS	K, N, R	0, 2	5, 6
EBC	K, H, N, P, R, T	5, 7	5, 6
QRS	K, N, R	0, 1, 2	5, 6, 8
QPS	K, H, N, P, R, T	0, 2	5, 6, 8
QBC	K, N, R	5, 6, 7, 8, 9, A	5, 6, 8
HRS	K, H, N, P, R, T	0, 1, 2	5, 6, 8
HPS	K, H, N, P, R, T	0, 2	5, 6, 8
FPS	K, N, R	0, 2	5, 6



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