

**x7AH “Arrowhead” Series**

The x7AH “Arrowhead” series are compact, non-isolated converters, available in either vertical mount or surface mount packages. These products provide up to 12A of output current from a 3.3V or 5V source, or up to 8A of output current from a 12V source. Standard features include remote on/off, output voltage adjust, over current protection, short circuit protection and undervoltage lockout.



**Arrowhead Series**  
**0.8A - 12A Output**  
**0.78 x 0.7 x 0.32 (in)**  
**19.8 x 17.8 x 8.1 (mm)**

Input Voltage	Output Voltage	Max. Output Current	Max. Output Power	Model Number Surface Mount	Model Number Vertical Mount
3.0 ~ 5.5V	0.8 ~ 3.3V	12A	40W	S7AH-12F1A0	V7AH-12F1A0
2.5V	1.0, 1.2, 1.5V	10A	15W	S7AH-10Jxx0	V7AH-10Jxx0
4.5 ~ 14V	0.8 ~ 3.3V	8A	27W	S7AH-08E1A0	V7AH-08E1A0
8.0 ~ 14V	5.0V	8A	40W	S7AH-08E500	V7AH-08E500
5V	0.9 ~ 3.3V	8A	26W	S7AH-08B1A0	V7AH-08B1A0
10 ~ 14V	0.9 ~ 3.3V	7A	23W	S7AH-07A1A0	V7AH-07A1A0
3.3V	0.9 ~ 2.5V	7A	17.5W	S7AH-07C1A0	V7AH-07C1A0
12V	5.0V	5A	25W	S7AH-05A500	V7AH-05A500
12V	0.9 ~ 3.3V	5A	16.5W	S7AH-05A1A0	V7AH-05A1A0
5V	1.0, 1.2, 1.5, 1.8, 2.5, 3.3V	5A	16.5W	S7AH-05Bxx0	V7AH-05Bxx0
5V	Vref/2	5A	6.3W	S7AH-05BT50	V7AH-05BT50
3.3V	1.2, 1.5, 1.8, 2.5V	5A	12.5W	S7AH-05Cxx0	V7AH-05Cxx0
4.5 ~ 32V	1.2, 1.5, 1.8, 2.5, 3.3, 5.0V	3A	15W	S7AH-03Hxx0	V7AH-03Hxx0
5.0 ~ 24V	0.9 ~ 3.3V	3A	10W	S7AH-03L1A0	V7AH-03L1A0
3.0 ~ 5.5V	0.9 ~ 3.3V	3A	10W	S7AH-03F1A0	V7AH-03F1A0
12V	1.2, 1.5, 1.8, 2.5, 3.3, 5.0V	3A	15W	S7AH-03Axx0	V7AH-03Axx0
3.3V	0.9 ~ 2.5V	3A	7.5W	S7AH-03C1A0	V7AH-03C1A0
12V	5.0V	2A	10W	S7AH-02A500	V7AH-02A500
12V	0.9 ~ 3.3V	2A	7W	S7AH-02A1A0	V7AH-02A1A0
4.5 ~ 32V	1.2 ~ 3.3V	1A	3.3W	S7AH-01H1A0	V7AH-01H1A0
9.0 ~ 18V	5.0, 9.0, 12V	1A	12W	S7AH-01Kxx0	V7AH-01Kxx0
9.0 ~ 18V	15V	0.8A	12W	S7AH-01KX50	V7AH-01KX50
9.0 ~ 18V	-15V	0.8A	12W	S7AH-01KX5N	V7AH-01KX5N

**x7AH “Arrowhead” Boost Converters**

The x7AH “Arrowhead” boost converters are compact, non-isolated converters, available in either vertical mount or surface mount packages. These products provide up to 3A of output current from a 3.3V or 5V source. Standard features include remote on/off, output voltage adjust and burst mode operation at light load.

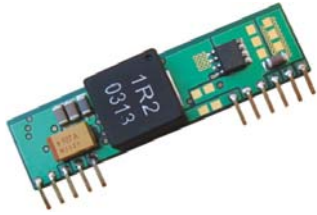


**Arrowhead Boost**  
**0.6A - 3A Output**  
**0.78 x 0.7 x 0.32 (in)**  
**19.8 x 17.8 x 8.1 (mm)**

Input Voltage	Output Voltage	Max. Output Current	Max. Output Power	Model Number Surface Mount	Model Number Vertical Mount
3.3V	5.0V	3A	15W	S7AH-03C500	V7AH-03C500
3.3V	5.0V	1.5A	7.5W	S7AH-02C500	V7AH-02C500
3.0 ~ 5.5V	-5V, -12V	1A, 0.5A	5W	S7AH-01FxxN	V7AH-01FxxN
3.3V	12, 15V	0.8A, 0.6A	10W	S7AH-01Cxx0	V7AH-01Cxx0
3.0 ~ 5.5V	12, 15V	0.8A, 0.6A	10W	S7AH-01Fxx0	V7AH-01Fxx0

For the 02C model, a version with Burst Mode Operation disabled for lower output ripple at light loads is also available and named as x7AH-02C50B.

## V7PB “SIP” Series



**V7PB Series**  
**6A - 15A Output**  
 2.0 x 0.55 x 0.39 (in)  
 50.8 x 14.0 x 9.8 (mm)

The V7PB series are part of Bel's low cost non-isolated converters. These products use an industry standard SIP package for easy of layout and space savings. The output is tightly regulated. Standard features include remote on/off, programmable output voltage, over current protection, short circuit protection, over-temperature protection and undervoltage lockout.

Input Voltage	Output Voltage	Max. Output Current	Max. Output Power	Model Number
3.3V	0.9, 1.2, 1.5, 1.8, 2.5V	15A	38W	V7PB-15CxxS
8.0 ~ 13.2V	5.0V	15A	75W	V7PB-15E50L
4.5 ~ 13.2V	0.9 ~ 3.3V	15A	50W	V7PB-15E1AL
12V	1.0, 1.2, 1.5, 1.8, 2.5, 3.3, 5.0V	10A	50W	V7PB-10AxxS
5V	0.9, 1.2, 1.5, 1.8, 2.5, 3.3V	10A	33W	V7PB-10BxxS
3.3V	0.9, 1.2, 1.5, 1.8, 2.5V	10A	25W	V7PB-10CxxS
3.0 ~ 13.2V	0.9, 1.2, 1.5, 1.8, 2.5, 3.3, 5.0V	10A	50W	V7PB-10DxxS
2.5 ~ 5.5V	0.75 ~ 3.3V	6A	20W	VRPB-06F1A0

All models above are Active High parts. Change the last character from "0" or "S" to "L" for Active Low parts. For V7PB-06F, also change the first letter from "V" to "O" for horizontal mount package. All specifications are subject to latest product datasheets.

## V7PF “SIP” Series



**V7PF Series**  
**15 / 20A Output**  
 1.2 x 1.0 x 0.46 (in)  
 30.5 x 25.4 x 11.6 (mm)

The V7PF series are part of Bel's non-isolated converters in a SIP package and provide up to 20A output. The standard features include remote on/off, wide output voltage trim (0.9V-5V) over current protection, under-voltage lockout, power good output signal and source/sink capability for termination applications.

Input Voltage	Output Voltage	Max. Output Current	Max. Output Power	Model Number
12V	0.9V – 5.0V	20A	100W	V7PF-20A1A0
12V	1.2 ~ 5.0V	15A	75W	V7PF-15A1AC
5V	1.2 ~ 3.3V	15A	50W	V7PF-15B1AC

The 20A model is also available in a horizontal package. All specifications are subject latest product datasheets.

## xRPG “SIP” Series



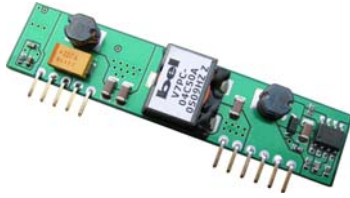
**xRPG SIP Series**  
**30 / 40A Output**  
 2.4 x 1.25 x 0.5 (in)  
 58.8 x 30.6 x 12.3 (mm)

The xRPG series are two-phase, non-isolated step down dc-dc converters that operate from a nominal 12V source. These converters have output voltages that can be set from 0.9V to 5.0V with an external resistor. Standard features include remote on/off, over current protection, thermal protection, output voltage adjust and remote sense. These products may be used almost anywhere low-voltage silicon is being employed and a 12V source is available.

Input Voltage	Output Voltage	Max. Output Current	Max. Output Power	Model Number Vertical Mount	Model Number Horizontal Mount
12V	1.0 ~ 2.0V	40A	80W	VRPG-40A4AE	ORPG-40A4AE
12V	1.0 ~ 2.0V	40A	80W	VRPG-40A3AE	ORPG-40A3AE
12V	2.5 ~ 5.0V	30A	150W	VRPG-30A2AE	ORPG-30A2AE
12V	0.9 ~ 5.0V	30A	150W	VRPG-30A1A0	ORPG-30A1A0

xRPG-30A2AE and xRPG-40A3AE have true active high on/off.

## Specialty SIPs



**Specialty SIP Series**  
2.5 x 0.55 x 0.37 (in)  
63.5 x 14.0 x 9.4 (mm)

The V7PC-04C/07PC-04C modules are boost converters in the standard SIP package. They provide 20W of 5V power. The standard features include over current protection, short circuit protection, under-voltage lockout and remote on/off. The V7PC-10AT5S is a tracking buck converter in the standard SIP package. It provides up to 20W of output power and is designed specifically to power DDR memory where a tracking voltage is required. The output tracks to 50% of the voltage applied to the Vref pin.

Input Voltage	Output Voltage	Max. Output Current	Max. Output Power	Model Number	Model Number
12V	Vref / 2	10A	20W	V7PC-10AT5S	
3.3V	5.0V	4A	20W	V7PC-04C500	07PC-04C500
3.3V	5.0V	4A	20W	V7PC-04C50A	07PC-04C50A

V7PC-04C50A/07PC-04C50A does not have short circuit protection, over current protection or remote on/off. Vref < 3.5V. All specifications are subject to latest product datasheets

## S7DB "Diamondback" Series



**Diamondback Series**  
3.5A - 30A Output  
1.22 x 0.83 x 0.35 (in)  
31.0 x 21.0 x 8.8 (mm)

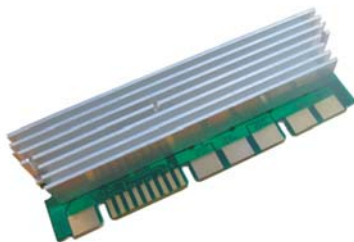
The S7DB "Diamondback" series are compact, non-isolated converters in surface mount package. These products provide up to 30A of output current and excellent thermal performance. Standard features include remote On/Off, remote sense, output voltage adjust, over current protection, short circuit protection and under-voltage lockout.

Input Voltage	Output Voltage	Max. Output Current	Max. Output Power	Model Number
5V	1.0 ~ 2.5V	30A	75W	S7DB-30B1AH
5.4 ~ 13.2V	1.0, 1.2, 1.5, 1.8, 2.5, 3.3, 5.0V	20A	100W	SRDB-20ExxH
5V	0.9 ~ 3.3V	12A	40W	S7DB-12B1AH
3.3V	0.9 ~ 2.5V	12A	30W	S7DB-12C1AH
4.5 ~ 13.2V	1.0, 1.2, 1.5, 1.8, 2.5, 3.3, 5.0V	10A	50W	SRDB-10ExxH
3.3V	5.0V	4A	20W	S7DB-04C500
9.0 ~ 32V	12V	3.5A	42W	S7DB-04HX20

## "VRM" Series



**G7NA-30D180**



**G7NC-C5A250**

Bel provides a wide variety of both custom and standard voltage regulator modules (VRMs) to power the latest microprocessors. These converters range in power from 30A up to 150A. Our latest VRM10.2 compatible product is also capable of power AMD Opteron type processors as well. These products are designed to meet the stringent dynamic response and high current requirements posed by today's microprocessor applications.

Input Voltage	Output Voltage	Max. Output Current	VRM Spec.	Connector	Model Number
12V	0.8 ~ 2.5V	150A	VRM10.2	Goldfinger	G7NC-C5A250
12V	0.83 ~ 1.6V	120A	VRM10.1	Goldfinger	G7NC-C2A160
12V	1.1 ~ 1.85V	80A	VRM9.1	Goldfinger	G7NB-81A180
12V	1.1 ~ 1.65V	60A	VRM9.0	PTH	V7NB-60A160G
12V	1.1 ~ 3.7V	40A	VRM9.0	PTH	V7NB-40A18BG
12V	0.83 ~ 1.4V	30A	AMD	PTH	V7NB-30A12CG
12V	1.05 ~ 1.825V	30A	VRM8.5	PTH	V7PG-30A3A1
3.0 ~ 15V	1.05 ~ 1.825V	30A	VRM8.5	Goldfinger	G7NA-30D180

## “Bobcat” Series



**xRBA Series**  
**3A - 6A Output**  
 0.8 x 0.45 x 0.25 (in)  
 20.3 x 11.4 x 6.4 (mm)

The xRBA series are non-isolated converters that deliver up to 6A of output current with full load efficiency of 92% at 5V output. These converters are available in either vertical mount or surface mount packages and are fully compatible with industry standards. Standard features include remote on/off, programmable output voltage, over-temperature protection, over-current protection, short circuit protection, under-voltage lockout and an optional sequencing function.

Input Voltage	Output Voltage	Max. Output Current	Max. Output Power	Auto-Sequencing	Model Number Surface Mount	Model Number Vertical Mount
8.3 ~ 14V	0.75 ~ 5.0V	6A	30W	Y	SRBA-06A2A0	VRBA-06A2A0
10 ~ 14V	0.75 ~ 6.0V	6A	36W	N	SRBA-06A1A0	VRBA-06A1A0
4.5 ~ 14V	0.75 ~ 5.0V	6A	30W	Y	SRBA-06E2A0	VRBA-06E2A0
4.5 ~ 14V	0.75 ~ 5.0V	6A	30W	N	SRBA-06E1A0	VRBA-06E1A0
2.4 ~ 5.5V	0.75 ~ 3.3V	6A	20W	Y	SRBA-06F2A0	VRBA-06F2A0
2.4 ~ 5.5V	0.75 ~ 3.3V	6A	20W	N	SRBA-06F1A0	VRBA-06F1A0
8.3 ~ 14V	0.75 ~ 5.0V	3A	15W	N	SRBA-03A1A0	VRBA-03A1A0
4.5 ~ 14V	0.75 ~ 5.0V	3A	15W	N	SRBA-03E1A0	VRBA-03E1A0
2.4 ~ 5.5V	0.75 ~ 3.3V	3A	10W	N	SRBA-03F1A0	VRBA-03F1A0

All models above are Active High parts. Change the last character of the part from “0” to “L” to indicate Active Low. All specifications are subject to latest product datasheets.

The xRBC series are non-isolated converters that deliver up to 16A of output current with full load efficiency of 94% at 3.3V output. These converters are available in either vertical mount or surface mount packages and are fully compatible with industry standards. Typical features include remote on/off, programmable output voltage, over-temperature protection, over current protection, short circuit protection, under-voltage lockout and an optional sequencing function.



**xRBC Series**  
**10A - 16A Output**  
 1.3 x 0.53 x 0.32 (in)  
 33.0 x 13.5 x 8.1 (mm)

Input Voltage	Output Voltage	Max. Output Current	Max. Output Power	Auto-Sequencing	Model Number Surface Mount	Model Number Vertical Mount
8.3 ~ 14V	0.75 ~ 5.0V	16A	80W	Y	SRBC-16A2A0	
8.3 ~ 14V	0.75 ~ 5.0V	16A	80W	N	SRBC-16A1A0	
4.5 ~ 14V	0.75 ~ 3.3V	16A	53W	Y	SRBC-16E2A0	VRBC-16E2A0
4.5 ~ 14V	0.75 ~ 3.3V	16A	53W	N	SRBC-16E1A0	VRBC-16E1A0
2.4 ~ 5.5V	0.75 ~ 3.3V	16A	53W	Y	SRBC-16F2A0	VRBC-16F2A0
2.4 ~ 5.5V	0.75 ~ 3.3V	16A	53W	N	SRBC-16F1A0	VRBC-16F1A0
10 ~ 14V	1.2, 1.5, 1.8, 2.5, 3.3, 5.0V	10A	50W	N	SRBC-10Axx0	
8.3 ~ 14V	0.75 ~ 5.0V	10A	50W	Y	SRBC-10A2A0	
8.3 ~ 14V	0.75 ~ 5.0V	10A	50W	N	SRBC-10A1A0	
4.5 ~ 14V	0.75 ~ 3.3V	10A	33W	Y	SRBC-10E2A0	VRBC-10E2A0
4.5 ~ 14V	0.75 ~ 3.3V	10A	33W	N	SRBC-10E1A0	VRBC-10E1A0
2.4 ~ 5.5V	0.75 ~ 3.3V	10A	33W	Y	SRBC-10F2A0	VRBC-10F2A0
2.4 ~ 5.5V	0.75 ~ 3.3V	10A	33W	N	SRBC-10F1A0	VRBC-10F1A0

All models above are Active High parts. Change the last character of the part from “0” to “L” to indicate Active Low. All specifications are subject to latest product datasheets.

## xRBG Series



**xRBG Series**  
**30A Output**  
 2.0 x 0.5 x 0.31 (in)  
 50.8 x 12.7 x 7.9 mm

The xRBG series are non-isolated multi-phase converters that deliver up to 30A of output current from a nominal 12V source. These converters are available in either vertical mount or surface mount packages. Typical features include remote on/off, programmable output voltage, over-temperature protection, over current protection, short circuit protection and under-voltage lockout.

Input Voltage	Output Voltage	Max. Output Current	Max. Output Power	Model Number Surface Mount	Model Number Vertical Mount
8 ~ 14V	0.8 ~ 3.6V	30A	100W	SRBG-30A1A0	VRBG-30A1A0

All specifications are subject to the latest product datasheets.

## Low Power Isolated Series



**V7XZ-01RD Series**  
**25mA - 28mA Output**  
 0.90 x 0.40 x 0.34 (in)  
 22.9 x 10.2 x 8.6 (mm)

The V7XZ-01RD series are part of the low cost isolated dc-dc Power Module series. The modules use a SIP package for ease of layout and space saving. Other modules with different input voltage (such as 12V) are available upon request.

Input Voltage	Output Voltage	Max. Output Current	Max. Output Power	Model Number
24V	22.5V (dual)	28mA	1.3W	V7XZ-01RD10
24V	27V (dual)	25mA	1.3W	V7XZ-01RD20

## 1" x 2" Isolated Series



**07LC Series**  
**0.5A - 7A Output**  
 1.0 x 2.0 x 0.47 (in)  
 25.4 x 50.8 x 11.9 (mm)

The 07LC series are isolated dc-dc converters that operate from 36 ~ 72V or 36 ~ 75V or 18 ~ 75V source. These units provide up to 30W of output power and are designed to be very cost-effective. Standard features include remote on/off, and over current protection and under-voltage lockout. Output pins are compatible with industry standard.

Input Voltage	Output Voltage	Max. Output Current	Max. Output Power	Model Number Active High
36 ~ 75V	3.3V	7A	23W	07LC-25T033
36 ~ 75V	5.0V	5A	25W	07LC-25T050
36 ~ 75V	12V	2.5A	30W	07LC-25T120
36 ~ 75V	15V	2A	30W	07LC-25T150
36 ~ 75V	24V	1.25A	30W	07LC-25T240
18 ~ 75V	1.5V	6A	9W	07LC-10U015
18 ~ 75V	3.3V	4A	13W	07LC-10U033
36 ~ 72V	3.3V	2A	6.6W	07LC-10T033
36 ~ 72V	5V	2A	10W	07LC-10T050
36 ~ 72V	12V	1A	12W	07LC-10T120
36 ~ 72V	24V	0.5A	12W	07LC-10T240

All models above are Active High parts. Change the last character of the part to "L" to indicate Active Low. All specifications are subject to the latest product datasheets.

## 1/16 Brick Isolated Converter Series

Bel's 1/16 Brick isolated converter series provide up to 60W of output power from a nominal 48V or 24V input and are designed to be highly efficient and low cost. Features include remote on/off, over-voltage protection, over current protection, short circuit protection, over-temperature protection and under-voltage lockout. Output pins are compatible with DOSA standard.



**1/16 Brick Series**  
**5A - 25A Output**  
 1.3 x 0.9 x 0.35 (in)  
 33.0 x 22.9 x 8.9 (mm)

Input Voltage	Output Voltage	Max. Output Current	Max. Output Power	Model Number Surface Mount	Model Number Horizontal Mount
36 ~ 75V	1.2V	25A	30W	S7SB-50TV20	07SB-50TV20
36 ~ 75V	1.5V	22A	33W	S7SB-50TV50	07SB-50TV50
36 ~ 75V	1.8V	20A	36W	S7SB-50TV80	07SB-50TV80
36 ~ 75V	2.5V	18A	45W	S7SB-50T025	07SB-50T025
36 ~ 75V	3.3V	15A	50W	S7SB-50T033	07SB-50T033
36 ~ 75V	5.0V	12A	60W	S7SB-50T050	07SB-50T050
36 ~ 75V	12V	5A	60W	S7SB-50T120	07SB-50T120
18 ~ 36V	8V	5A	40W	S7SB-50R080	07SB-50R080
18 ~ 75V	1.2V	18A	21.6W	S7SB-40UV20	07SB-40UV20
18 ~ 75V	1.5V	16A	24W	S7SB-40UV50	07SB-40UV50
18 ~ 75V	1.8V	14A	25.2W	S7SB-40UV80	07SB-40UV80
18 ~ 75V	2.5V	12A	30W	S7SB-40U025	07SB-40U025
18 ~ 75V	3.3V	10A	33W	S7SB-40U033	07SB-40U033
18 ~ 75V	5V	8A	40W	S7SB-40U050	07SB-40U050
18 ~ 75V	12V	3.5A	42W	S7SB-40U120	07SB-40U120
36 ~ 75V	1.2V	15A	18W	S7SB-30TV20	07SB-30TV20
36 ~ 75V	1.5V, 1.8V	13A	24W	S7SB-30TVx0	07SB-30TVx0
36 ~ 75V	2.5V	10A	25W	S7SB-30T025	07SB-30T025
36 ~ 75V	3.3V	10A	33W	S7SB-30T033	07SB-30T033
36 ~ 75V	5.0V	7A	35W	S7SB-30T050	07SB-30T050
36 ~ 75V	12V	3A	36W	S7SB-30T120	07SB-30T120

All models above are Active High parts. Change the last character of the part to "L" to indicate Active Low. All specifications are subject to the latest product datasheets.

## 1/8 Brick Isolated Converter Series

Bel's 1/8 Brick isolated converter series provide up to 100W of output power from a nominal 48V input and are designed to be highly efficient and low cost. Features include remote on/off, over current protection, short circuit protection, over-temperature protection and under-voltage lockout. Output pins are compatible with industry standard.



**1/8 Brick Series**  
**5A - 40A Output**  
 2.3 x 0.9 x 0.4 (in)  
 58.4 x 22.9 x 10.2 (mm)

Input Voltage	Nominal Output Voltage	Max. Output Current	Max. Output Power	Model Number Active High
<b>07CY Series</b>				
36 ~ 75V	1.2, 1.5V	30A	45W	07CY-85TVx0
36 ~ 75V	1.8V	25A	45W	07CY-85TV80
36 ~ 75V	2.5V	25A	63W	07CY-85T025
36 ~ 75V	3.3V	25A	85W	07CY-85T033
36 ~ 75V	5.0V	20A	100W	07CY-85T050
36 ~ 75V	12.0V	8.33A	100W	07CY-85T120
36 ~ 75V	1.2, 1.5, 1.8V	15A	27W	07CY-60TVx0
36 ~ 75V	2.5V	15A	38W	07CY-60T025
36 ~ 75V	3.3V	15A	50W	07CY-60T033
36 ~ 75V	5.0V	12A	60W	07CY-60T050
36 ~ 75V	12V	5A	60W	07CY-60T120
<b>Aquarius Series</b>				
36 ~ 75V	1.2, 1.5, 1.8, 2.0, 2.5V	40A	100W	GAQWxVx40P
36 ~ 75V	3.3V	30A	100W	GAQW3V330P
36 ~ 75V	5.0V	20A	100W	GAQW5V020P
18 ~ 36V	3.3V	30A	100W	GAQC3V330P
18 ~ 36V	5.0V	20A	100W	GAQC5V020P

All models above are Active High parts. For the two 07CY series, change the last character of the part to "L" to indicate Active Low. For Aquarius series, remove the last character of the part to indicate Active Low. All specifications are subject to the latest product datasheets.

## 1/4 Brick Isolated Converter Series

Bel's 1/4 Brick isolated converter series provide up to 150W of output power from a nominal 48V input and are designed to be highly efficient and low cost. Features include remote on/off, over current protection, short circuit protection, over-temperature protection and under-voltage lockout. Output pins are compatible with industry standard.



**1/4 Brick Series**  
**3A - 60A Output**  
 2.3 x 1.45 x 0.4 (in)  
 58.4 x 36.8 x 10.0 (mm)

Input Voltage	Nominal Output Voltage	Max. Output Current	Max. Output Power	Model Number Active High
<b>07QB Series</b>				
36 ~ 75V	1.2, 1.5, 1.8V	50A	90W	07QB-C5TVx0
36 ~ 75V	2.5V	50A	125W	07QB-C5T025
36 ~ 75V	3.3V	46A	152W	07QB-C5T033
36 ~ 75V	5.0V	30A	150W	07QB-C5T050
36 ~ 75V	12V	12A	144W	07QB-C5T120
18 ~ 75V	3.3V	25A	83W	07QB-C0U033
<b>S7QB Series</b>				
18 ~ 75V	15V	3A	45W	S7QB-45U150
18 ~ 75V	15V	2A	30W	S7QB-30U150
<b>PISCES II Series</b>				
36 ~ 75V	1.0, 1.2, 1.5, 1.8, 2.0V	60A	120W	G2PWxVx60P
36 ~ 75V	3.3V	45A	150W	G2PW3V345P
36 ~ 75V	5.0V	30A	150W	G2PW5V030P
18 ~ 36V	3.3V	45A	150W	G2PC3V345P
18 ~ 36V	5.0V	30A	150W	G2PC5V030P
<b>DORADO Series</b>				
36 ~ 75V	18 ~ 35V	3A	105W	GLDW34V03
36 ~ 75V	12V	8A	96W	GMDW12V08
36 ~ 75V	15V	6A	90W	GMDW15V06
18 ~ 36V	12V	8A	96W	GMDC12V08
18 ~ 36V	15V	6A	90W	GMDC15V06

All models above are Active High parts. For 07QB series, change the last character of the part to "L" to indicate Active Low. For PISCES II series, remove the last character of the part to indicate Active Low. All specifications are subject to the latest product datasheets.

## 1/2 Brick Isolated Converter Series

Bel's 1/2 Brick isolated converter series provide up to 400W of output power from a nominal 48V input and are designed to be highly efficient and low cost. Features include remote on/off, over current protection and under-voltage lockout.



**1/2 Brick Series**  
**4A - 80A Output**  
 2.28 x 2.4 x 0.42 (in)  
 57.9 x 60.9 x 10.7 (mm)

Input Voltage	Output Voltage	Max. Output Current	Max. Output Power	Model Number Active High
<b>07HB Series</b>				
36 ~ 75V	1.2, 1.5, 1.8V	80A	144W	07HB-D0TVx0
36 ~ 75V	2.5V	80A	200W	07HB-D0T025
36 ~ 75V	3.3V	70A	231W	07HB-D0T033
36 ~ 75V	5.0V	48A	240W	07HB-D0T050
36 ~ 75V	12V	20A	240W	07HB-D0T120
36 ~ 75V	3.3V	50A	165W	07HB-C5T033
36 ~ 75V	5.0V	25A	125W	07HB-C5T050
<b>Bolero Series</b>				
36 ~ 75V	24V	8A	192W	GPBW24V08
36 ~ 75V	28V	8A	224W	GPBW28V08
36 ~ 75V	52V	4A	208W	GPBW52V04
38 ~ 55V	53V	8A	400W	GHBW53V08
<b>Taurus Series</b>				
36 ~ 75V	1.2, 1.5, 1.8, 2.0, 2.5, 3.3V	60A	200W	GHTWxVx60
36 ~ 75V	5.0V	40A	200W	GHTW5V040
36 ~ 75V	1.2, 1.5, 1.8, 2.0, 2.5, 3.3V	40A	130W	GPTWxVx40
36 ~ 75V	5.0V	30A	150W	GPTW5V030

All models above are Active High parts except for Bolero series. For the two 07HB series, change the last character of the part to "L" to indicate Active Low. For Bolero series, the model numbers above refer to Active Low parts. For Taurus series, 24V Input modules and Turned Model option are also available. All specifications are subject to the latest product datasheets.

## Bus Converter Series



**1/16 Brick**  
**8.5A - 16A Output**  
 1.3 x 0.9 x 0.35 (in)  
 33.0 x 22.9 x 8.9 (mm)

Bel's family of Bus Converters is designed for Intermediate Bus Architecture applications. In these applications the Bus Converter isolates and steps down a primary distribution bus (usually 48V) to a lower voltage bus (typically 6 ~ 12V). This intermediate bus is used to power downstream non-isolated point-of-load converters that generate the voltages required by the various semiconductor devices in the system. These converters are designed to be low cost, high density and provide typical full load efficiency of around 96%.

### Sixteenth Brick Bus Converters

Input Voltage	Nominal Output Voltage	Max. Output Current	Max. Output Power	Turns Ratio	Model Number
36 ~ 55V	12V	8.5A	100W	4:1	S7CA-08S12L
36 ~ 55V	9.6V	16A	154W	5:1	S7CA-16S10L



**1/8 Brick**  
**12A - 25A Output**  
 2.28 x 0.9 x 0.32 (in)  
 57.9 x 22.9 x 8.1 (mm)

### Eighth Brick Bus Converters

Input Voltage	Nominal Output Voltage	Max. Output Current	Max. Output Power	Turns Ratio	Model Number
36 ~ 55V	9.6V	25A	250W	5:1	07CR-25S10L
36 ~ 60V	12V	12A	144W	4:1	07CR-12S12L
36 ~ 60V	8V	18A	144W	6:1	07CR-18S08L
36 ~ 75V	8V	15A	120W	6:1	07CR-15T08L



**1/4 Brick**  
**20A - 36A Output**  
 2.3 x 1.45 x 0.48 (in)  
 58.4 x 36.8 x 12.2 (mm)

### Quarter Brick Bus Converters

Input Voltage	Nominal Output Voltage	Max. Output Current	Max. Output Power	Turns Ratio	Model Number
36 ~ 55V	9.6V	36A	300W	5:1	07CM-36S10L
36 ~ 55V	12V	27A	300W	4:1	07CM-27S12L
36 ~ 55V	12V	20A	240W	4:1	07CM-20S12L



**1/2 Brick**  
**70A Output**  
 2.4 x 2.28 x 0.45 (in)  
 60.9 x 57.9 x 11.4 (mm)

### Half Brick Bus Converters

Input Voltage	Nominal Output Voltage	Max. Output Current	Max. Output Power	Turns Ratio	Model Number
36 ~ 55V	9.6V	70A	500W	5:1	07CN-70S10L

All specifications are subject to the latest product datasheets.

## Dual Output Brick Converter Series



**07XW Series**  
**35W - 65W Output**  
 2.3 x 1.45 x 0.45 (in)  
 58.4 x 36.8 x 11.4 (mm)

The Bel 07XW series are isolated converters that operate from a nominal 48V source. They provide up to 65W of output power with two output voltages. Features include remote on/off, short circuit protection, over current protection, over-temperature protection, output over-voltage protection and input under-voltage lockout. These converters are provided in a compact, through-hole 1/4 brick package that is easy to use and provides good thermal performance.

Input Voltage	Output Voltage	Max. Output Current	Max. Output Power	Model Number
36 ~ 75V	3.3V/1.5V	6A/8A	35W	07XW-35TD20
36 ~ 75V	3.3V/1.2V	8A/13A	45W	07XW-45TD10
36 ~ 75V	3.3V/1.5V	8A/12A	45W	07XW-45TD20
36 ~ 75V	3.3V/1.8V	10A/10A	45W	07XW-45TD30
36 ~ 75V	+12V/-12V	2.7A/2.7A	65W	07XW-65TD10



**07XU-75TD10**  
**78W Output**  
 2.4 x 2.28 x 0.48 (in)  
 60.9 x 57.9 x 12.2 (mm)

The Bel 07XU-75TD10 is an isolated converter that operates from a nominal 48V source. It provides up to 78W of output power with two output voltages. Features include remote on/off, output adjustment, short circuit protection, over current protection, over-temperature protection, output over-voltage protection and input under-voltage lockout. This converter is provided in a compact, through-hole 1/2 brick package that is easy to use and provides good thermal performance.

Input Voltage	Output Voltage	Max. Output Current	Max. Output Power	Model Number
36 ~ 75V	+12V/-12V	5A/1.5A	78W	07XU-75TD10

## Custom Capabilities

In addition to the products available in this Selector Guide, Bel also offers, for its strategic customers, a wide array of custom design and manufacturing capabilities. From custom modules to board level design to chassis-type power supplies, Bel can help you optimize your power system.



## More to come...

Bel Power Products is continually developing new isolated and non-isolated dc-dc converters in a wide variety of packages for a broad array of applications. Please give us a call or send us e-mail if you do not see a product that would meet your needs. E-mail inquiries may be addressed to [techhelp@belfuse.com](mailto:techhelp@belfuse.com) (US/Europe) or [tonykwok@belfuse-cn.com](mailto:tonykwok@belfuse-cn.com) (China).