



bel POWER SOLUTIONS & PROTECTION
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Bel Power Solutions product highlights

Content

AVNET AND BEL POWER SOLUTIONS

Avnet offers a wide range of world-class power conversion products from Bel Power Solutions, including DC-DC converters and power supplies. The benefits to customers include reduced energy consumption through increased power densities, better performance in elevated temperature environments, lowered cooling costs, and improved energy harvesting in alternative-energy applications.

Bel Power Solutions products are suitable for a wide range of applications, including industrial routers, data storage and servers, wireless communications, medical diagnostics, optical networking, automated test equipment, transportation and railway.

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AC-DC portfolio

Bel Power Solutions provides intelligent, efficient and reliable AC-DC power conversion devices, including rack systems, front-end, open-frame, modular and DIN rail power supplies, designed for applications including servers, storage, networking, industrial and transportation.

ABC/MBC SERIES

The ABC series is ideal for use in a broad array of industrial, telecom and datacom applications. The medically approved MBC series features 2 x MOPP isolation and is designed for use in applications in which minimal power loss and easy thermal management are required. The low-profile ABC and MBC series - under one inch in height - are ideal for use in space constrained applications.



Features and benefits

- No minimum load required
- High convection rating
- EMI level B
- Operating temperature range -20 to +70°C
- I2C communication bus (ABC600)
- Adjustable main output
- L series (low-profile) under one inch in height
- Cover kits available

Applications

Industrial, telecom and datacom

- IT equipment
- Test and measurement equipment
- Renewable energy
- Instrumentation
- Automation
- Broadcast
- Audio/video equipment

Medical

- Monitoring
- Diagnostic and portable equipment
- Home healthcare
- Dialysis
- Drug pump devices

Series	V _{OUT}	Size (inches)	Power
ABC/MBC40	5,12,15,24,48V	2 x 4 x 1.2	40W
ABC/MBC60	5,12,15,24,48V	2 x 4 x 1.2	60W
ABC/MBC75*	12,15,24,30,48,58V	2 x 3 x 1	75W
ABC/MBC120*	12,15,24,30,48,58V	2 x 3 x 1.18	120W
ABC/MBC150	5,12,15,24,48V	2 x 4 x 1.3	150W
ABC/MBC180*	12,15,24,30,48,58V	2 x 4 x 0.75	180W
ABC200	12,15,24,48V	2 x 4 x 1.5	200W
ABC/MBC201	5,12,15,24,30,48V	3 x 5 x 1.5	200W
ABC/MBC225*	12,15,24,30,48,58V	2 x 4 x 1	225W
MBC250	12,24,48V	3 x 5 x 1.5	250W
ABC/MBC275*	12,15,24,30,48,58V	3 x 5 x 0.75	275W
ABC/MBC300	5,12,15,24,30,48V	3 x 5 x 1.5	300W
ABC/MBC350*	12,15,24,30,48,58V	3 x 5 x 1	350W
ABC400	12,24,48V	3 x 5 x 1.5	400W
ABC/MBC450	5,12,15,24,30,48V	4 x 6.5 x 1.6	450W
ABC/MBC550	12,15,24,30,48,58V	3 x 5 x 1.5	550W
ABC/MBC600	12,15,24,28,48,52V	5 x 8 x 1.6	600W

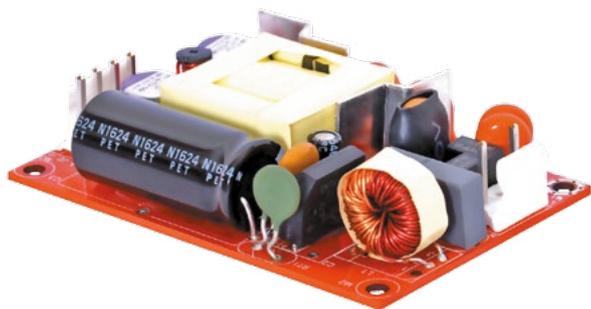
*Low profile series

ABC41 SERIES ULTRA LOW PROFILE OPEN FRAME POWER SUPPLIES

The ABC41 series of ultra low open frame power supplies features a wide universal AC input range of 85V – 264VAC, offering output power 40W with natural convection cooling. They are available in a variety of isolated single output voltages. The ABC41 ultra low profile series is also available in a PCB mount format, facilitating simple embedded integration onto the user's main PCB assembly.

The high efficiency and high power density of the ABC family ensures minimal power loss in end-use equipment, thereby facilitating higher reliability and easier thermal management, and meets regulatory approvals for environmentally-friendly end products.

These power supplies are ideal for a broad range of telecom, datacom, industrial equipment and other applications.



Features and benefits

- 3 x 2 x 0.75 inches form factor
- PCB mount option available
- 40W convection
- Approved to EN/IEC 60950
- Efficiencies 85% typical
- -40 to +70°C operating temperature
- 2 million hours, Telcordia -SR332-issue 3 MTBF
- Standby power < 0.3W

Applications

- Instrumentation
- Lighting
- Industrial
- Applied computing
- Renewable energy
- Test and measurement
- Robotics
- Wireless communication

Model selection

Model number ¹	Connector	Voltage	Max. load	Min. load	Ripple & noise ²
ABC41-1T05L ABC41-1005L ABC41-1005P	Screw terminal header PCB mount	5 V	5 A	0.0 A	1.5%
ABC41-1T12L ABC41-1012L ABC41-1012P	Screw terminal header PCB mount	12 V	3.33 A	0.0 A	1%
ABC41-1T15L ABC41-1015L ABC41-1015P	Screw terminal header PCB mount	15 V	2.67 A	0.0 A	1%
ABC41-1T24L ABC41-1024L ABC41-1024P	Screw terminal header PCB mount	24 V	1.67 A	0.0 A	1%
ABC41-1T30L ABC41-1030L ABC41-1030P	Screw terminal header PCB mount	30 V	1.33 A	0.0 A	1%
ABC41-1T48L ABC41-1048L ABC41-1048P	Screw terminal header PCB mount	48 V	0.83 A	0.0 A	1%
ABC41-1T58L ABC41-1058L ABC41-1058P	Screw terminal header PCB mount	58 V	0.69 A	0.0 A	1%
COVER-41-XBC ³	Metal cover kit accessory				

- 1 For class II option (without input earth pin) add suffix: -2 (e.g.: ABC41-1012L-2).
- 2 Ripple is peak to peak with 20 MHz bandwidth and 10 µF (tantalum capacitor) in parallel with a 0.1 µF capacitor at rated line voltage and load ranges.
- 3 Cover kit is not suited for PCB mount version.

LPM/LMM SERIES MODULAR

The Bel Power Solutions LPM/LMM409 and LPM/LMM616 series of AC-DC power supplies offer the flexibility of modular architecture and the combination of high efficiency and market-leading power density in an extra low 1U profile. They offer 1-4 or 1-6 isolated, fully user configurable output slots providing power levels from 900W to 1600W. The LPM series can be used for a wide range of industrial applications, while the LMM series is suitable for medical use.



Modular designator	# of outputs	Voltage	Power V_{OUT1}	Current (max)
E	1	2.5V to 5.3V	265W	53A (61.2A)
F	1	5.2V to 15V	265W	22A (25.5A)
G	1	14V to 30V	265W	11A (12.7A)
H	1	29V to 44V	265W	7.4A (8.5A)
J	1	43V to 54V	265W	5.5A (6.4A)
K	1	1.5V to 15V	90W	6A (7A)
L	1	1.5V to 32V	90W	3A (3.6A)
M	2	1.5V to 15V	90W	6A (7A)
N	2	1.5V to 32V	90W	3A (3.6A)

Features and benefits

- LPM/LMM409 up to 900W and 8 outputs
- LPM/LMM616 up to 1600W and 12 outputs
- AC input up to 440Hz via terminal block
- LMM 2X MOPP and 3rd edition medical approvals
- Radiated and conducted emissions - class B
- Full load operation from -20 to +50°C
- Extra-low 1U profile (1.6 inches)
- Efficiencies up to 92%
- High power density up to 18W/inches³
- 1 - 4 or 6 isolated output slots, fully user configurable
- Auxiliary power 5V (1A)
- Power factor correction (PFC)
- Parallel/series bar options
- Factory set voltages (optional)

Applications

Industrial (LPM)

- Automation
- Peripherals
- Audio/broadcast

Medical (LMM)

- Imaging equipment
- Anesthesiology
- Surgical devices
- Ultrasound

PFE SERIES (FRONT-END AC-DC POWER SUPPLIES)

The PFE series of platinum efficiency front-end AC-DC power supplies offers output power from 600 to 3000W and converts standard AC mains power into a main output of 12VDC for powering intermediate bus architectures (IBA) in high performance and reliability servers, routers, and network switches. The I2C bus allows full monitoring of the supply, including input and output voltage, current, power, and internal temperature.



Features and benefits

- Platinum efficiency
- Output power 600 to 3000W
- 12 and 48VDC output
- AC and DC inputs
- High power density (up to 43W/inches³)
- 1U form factor
- Forward & reverse airflow
- Digital current share
- PMBus™ for control, programming and monitoring

Model	V_{OUT}	Output power	Dimensions (mm) w/o connector (LxWxH)
AC input			
PFE600-12-054xA	12V	600W	321.5 x 54.5 x 40
PFE600-12-054xA	12V	750W	300 x 50.5 x 40
PFE800-12-074xA	12V	800W	185 x 73.5 x 39
PFE850-12-054xA	12V	850W	321.5 x 54.5 x 40
PFE1100-12-054xA	12V	1100W	321.5 x 54.5 x 40
PFE1300-12-054xA	12V	1300W	321.5 x 54.5 x 40
PFE1300-12-054xA	12V	1300W	321.5 x 54.5 x 40
PFE1500-12-054xA	12V	1500W	321.5 x 54.5 x 40
PFE1600-12-074NA	12V	1600W	265 x 73.5 x 40
PFE2000-12-074NA	12V	2000W	265 x 73.5 x 40
PFE3000-12-069RA	12V	3000W	555 x 69 x 42
DC input			
PFE1100-12-054xD	12V	1100W	321.5 x 54.5 x 40
PET2000-12-074ND	12V	2000W	265 x 73.5 x 40
PFE3000-12-079RD	12V	3000W	555 x 79 x 42

DIN RAIL SERIES

Bel Power Solutions offers a variety of DIN rail power supplies suitable for SELV and PELV circuitry. Products are designed to be mounted on DIN rails and installed inside a protective enclosure.

While the LDN series is a single phase power supply suitable for general purpose low to medium power applications, the LDC series is ultra compact (35mm wide), and designed for space sensitive applications. The LDW series is a single, two or three phase, wide input range switching mode power supply, fitting many applications, including renewable energy.

LDP series models are the first user programmable units with active PFC, offering unmatched flexibility. Digitally controlled, they provide two user programmable voltage steps with settable duration covering wide input and output voltages. Additionally, a range of back up and redundancy solutions are available.



Series	V _{IN}	V _{OUT}	I _{OUT}
LDW240	187-550VAC (250-725VDC), 1/2/3 ph	12,24,48,72VDC	240W
LDW480	87-550VAC (250-725VDC), 1/2/3 ph	24,48,72VDC	480W
LDT480	340-550VAC (470-725VDC)	24VDC	480W
LDT481	340-550VAC (520-725VDC)	12,24,48,72VDC	480W
LDT720	340-550VAC (520-725VDC)	24,48VDC	720W
LDT960	340-550VAC (520-725VDC)	24,48,72VDC	960W
LDT240	340-550VAC (520-725VDC)	24,48,72,170VDC	2400W
LDP200-200	170-550VAC (250-725VDC)	36-205VDC	200W
LDP200-120	170-550VAC (250-725VDC)	24-120VDC (User adjustable)	200W
LDD120	12,24,48VDC	12,24VDC	120W
LDD240	100VDC	24VDC	240W

Features and benefits

- Units are provided with hiccup at the overload limit with auto reset, over-temperature and over-voltage protection
- Available in various output voltages, covering output power from 20 to 2400W
- Operating temperature range of -40 to +70°C

Applications (LDx series)

- Industrial machinery
- Process control
- Telecom
- Renewable energy
- Conveyors
- Material handling
- Back-up
- High reliability applications

Series	V _{IN}	V _{OUT}	Power
LDN20	90-264VAC (110-345VDC)	12,24VDC	20W
LDN40	90-264VAC (110-345VDC)	2 x 12-16,12-15,24VDC	40W
LDN80	90-264VAC (110-345VDC)	12-15,24VDC	80W
LDN85	90-264VAC (110-345VDC)	5,24VDC	85W
LDN120	90-264VAC (110-345VDC)	12,24,48VDC	120W
LDN240	90-132/187-264VAC (270-345VDC)	12,24,48,72VDC	240W
LDN480	187-264VAC (250-375VDC)	24VDC	480W
LDN481	90-132/187-264VAC (270-345VDC)	24,48,72VDC	480W
LDC120	90-264VAC (110-345 VDC)	24,48VDC	120W
LDC240	90-264VAC (110-345 VDC)	12,24,36,48,72VDC	240W
LDC480	90-264VAC (110-345 VDC)	24,36,48,72VDC	480W
LDW25	90-550VAC (150-725 VDC), 1/2ph	24VDC	25W
LDW120	187-550VAC (250-725 VDC), 1/2ph	12,24,48VDC	120W

TCP/XP SERIES (HIGH POWER AC-DC POWER SUPPLIES FAN-LESS/FAN-COOLED)

The TCP and TXP series of AC-DC industrial converters, with a universal input voltage range of 180 - 528VAC (line to line), employ a PFC stage and an isolated DC-DC stage to convert world-wide three phase input voltage to a low voltage.



Bulk power supply for industrial applications

Series	V _{IN}	V _{OUT}	I _{OUT}	Power
TCP3500	180-528VAC, 3p	24/48/60V (adj.)	145,65,73A	3500W
TXP3500	180-528V, 3p	48V	73A	3500W
TXP4000	350-528V, 3p	Adjustable 30-137.5V	36.5A	4000W

Features and benefits

- Scalable output power up to 50.4kW
- 3-phase AC input voltage range 200-480V
- Adjustable output voltage range
- Parallel or serial operation
- High efficiency (93%) and power density (16W/inches³)
- Remote output adjustment and monitoring

Applications

- Battery chargers
- Bulk power systems
- Industrial printers
- Laser cutting
- Welding
- Engraving
- Drilling
- Marking
- Cladding
- Surface treatment
- Rapid prototyping

LBC SERIES HIGH POWER RUGGEDISED BATTERY CHARGER

The LBC series is a ruggedised battery charger consisting of two or three parallel independent AC-DC converter modules, employing a PFC stage and an insulated DC-DC stage to convert the three-phase input voltage 400/480VAC (line to line) to a bus voltage suitable for 110V battery charging. The system includes a DSP for control and monitoring.



Features and benefits

- Custom solution for multiple railway and industrial applications
- Input voltage: 3 x 400/480VAC (350-528VAC)
- Output power up to 12kW
- 110VDC output is decoupled with a diode for load separating
- Output voltage for 110V NiCd battery (adjustable 85-137.5VDC)
- Operating temperature -25 to +55°C without derating
- CAN bus/ethernet interface
- EN 50155, EN 50121-3-2 and EN 45545 compliant

LR SERIES RUGGED AC-DC CASSETTES WITH PFC (MELCHER)

The LR series AC-DC converters are EN50155, EN50121-3-2 and EN45545 compliant power supplies suitable for use in rolling stock railway and rough industrial environments. Features include full power factor correction, good hold-up time, high efficiency and reliability, low output noise, and excellent dynamic response to load/line changes.



Features and benefits

- Universal input voltage range 90-264VAC
- Inrush current limitation
- Two isolated adjustable outputs (12V or 15V or 48V)
- Output power up to 300W
- EN50155 and AREMA compliant
- Parallel operation with active current sharing
- Hold-up time 20ms

AREMA COMPLIANT POWER SYSTEMS



Features and benefits

- High current sub-rack, 5-40A systems, fully redundant
- 1-4 MELCHER 150W AC-DC converters per rack
- Universal fully redundant input 110/230VAC
- Fully redundant outputs of 12-15VDC or 24-30VDC
- 5-40A of output current
- Test voltage 3000VAC
- Relay contacts for alarm signals

DC-DC portfolio

Bel Power's MELCHER lineup of DC-DC cassette-style power converters provides consistent power to a diverse array of railway, signalling, communications, transportation and industrial infrastructure applications.

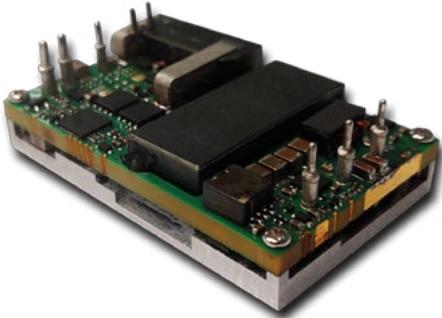
Bel provides a wide range of isolated DC-DC bricks with a range of power density and feature-rich digital power solutions that seamlessly integrate power conversion and management.

ORQB-X0S11X ISOLATED DC-DC CONVERTER

ORQB-X0S11x is an isolated and regulated DC/DC converter that operates from a nominal 52Vdc source. This unit provides up to 1000 W output power from a nominal 52Vdc input.

This unit is designed to be highly efficient and low cost. Features include remote on/off, short circuit protection, over current protection, under voltage lockout, power good indication and over temperature protection.

The converter is provided in an industry standard quarter brick package.



Features and benefits

- 45–58VDC input / 11.1VDC @ 0 A output / 10.6VDC @ 94.3A output /1/4th brick converter
- Isolated
- Fixed frequency (300kHz)
- High efficiency
- High power density
- Input under voltage lockout
- OCP/SCP
- Output over-voltage protection
- Over temperature protection
- Remote on/off
- Power good indication
- Parallel operation with droop
- Approved to UL/CSA/IEC60950-1, 2nd +A2 version
- Class 2, category 2, isolated DC/DC converter (refer to IPC-9592B)

Applications

- Networking
- Computers and peripherals
- Telecommunications

Model selection

Model number	Model number	V _{OUT}	V _{IN}	Max. output current	Max. output power	Typical efficiency
ORQB-X0S11L	ORQB-X0S110	10.6 VDC	45 VDC – 58 VDC	94.3 A	1000 W	97.3%
ORQB-X0S11B	ORQB-X0S11A	10.6 VDC	45 VDC – 58 VDC	94.3 A	1000 W	97.3%
ORQB-X0S11D	ORQB-X0S11C	10.6 VDC	45 VDC – 58 VDC	94.3 A	1000 W	97.3%

NOTE: Add "G" suffix at the end of the model number to indicate tray packaging.

ISOLATED DC-DC BRICKS & REGULATED BUS CONVERTERS

The Bel Power portfolio of products includes one of the broadest ranges of DC/DC converter brick modules on the market today. The range covers standard "brick" sizes including sixteenth, eighth, quarter and half brick packages, each with a range of features from state-of-the-art performance, to basic volts and amps for the budget conscious.



Regulated bus converters

Model	V _{IN}	V _{OUT}	MAX I _{OUT}	Power
1/16 Brick (0.9 x 1.3 inches)				
ARSB-D5S10L	45-56V	10.6V	24A	250W
1/8 Brick (0.896 x 2.3 inches)				
ORRE-32S10R	38-55V	8.2V	36A	300W
ORCY-Q0S10L	45-56V	9.7V	41A	400W
ARCY-F0S10L	45-56V	10.4V	48A	500W
1/4 Brick (1.45 x 2.3 inches)				
ORRQ-45M1R	51-55V	9.7V	51A	480W
ORQB-S0S12L	45-56V	10.4V	60A	600W
ORQB-E0S10L	51-56V	9.6V	85A	810W
ORQB-S0M11L	48.6-60V	11.2V	62.5A	700W
ORQB-F5S11L	38-56V	10.6V	52A	550W
ARQB-X0S10L	45-56V	10V	100A	1000W

Features and benefits

- Sixteenth brick to half brick form factors
- Wide (4:1) and narrow (2:1) input ranges
- Through hole (THT) and surface mount (SMT)
- Output voltages from 0.5VDC to 15VDC
- High power density
- Industry standard pin-outs
- Excellent thermal performance
- Direct current sharing

Isolated DC-DC bricks

Model	Mount	V _{IN}	V _{OUT}	Power
1/16 Brick (0.9 x 1.3 inches)				
ORSB/SRSB	SMT,THT	36-75V	1.2,1.5,1.8,2.5,3.3,5,12V	100W
UIS	THT	18-75V	300 x 50.5 x 40	72W
1/8 Brick (0.896 x 2.3 inches)				
ORCY	THT	18-36V	1.8,3.3,12V	120W
ORCY	THT	36-75V	1.2,1.5,1.8,2.5,3.3,5,12V	300W
UIE	THT	18-75V	3.3,5,12V	120W
1/4 Brick (1.45 x 2.3 inches)				
ORQB	THT	18-36V	5,12V	240W
ORQB	THT	36-75V	1.2,2.5,3.3,5,12V	600W
UIQ	THT	18-75V	3.3,5,12V	240W
1/2 Brick				
ORHB	THT	9-36V	15V	100W
ORHB	THT	36-75V	1.2,1.5,1.8,2.5,3.3,5,12V	600W

RCM SERIES (MELCHER)

The RCM series (Railway Chassis Mount) DC-DC converter is a reliable power supply for railway and transportation systems. There are two wide input voltage ranges available for 150W and 300W models, while 500W and 1000W models are optimised for 110V railway batteries. The RCM series is designed for chassis mount applications operating in convection cooled environments. Many options are available, such as an output ORing FET for redundant operation, output voltage adjustment, interruption time of 10ms (class S2), out-ok signals, and a shutdown input.



Models	V _{IN}	V _{OUT}	I _{OUT}	Power
110RCM150-12 110RCM150-24	24V (16.8-45V)	12V 24V	12.5A 6.25A	150W
110RCM500-24	110V (77-137.5V)	24V	21A	500W
110RCM1000-24	24V (77-137.5V)	24V	42A	1000W

Features and benefits

- RoHS lead-free-solder product
- Input voltage ranges:
 - 150W/300W models: 24/36V or 72/110V batteries
 - 500W/1000W models: 110V battery
- Output voltages:
 - 150W/300W models: 12V and 24V
 - 500W/1000W models: 24V
- Integrated enclosure for chassis mounting
- Extremely high efficiency and high power density
- Low inrush current
- 3 connectors: input, output, auxiliary (option for 150W /300W models)
- Over-temperature, over-voltage, over-current, and overload protection
- Compliant to EN 50155 and EN 45545

Models	V _{IN}	V _{OUT}	I _{OUT}	Power
24RCM150-12 24RCM150-24	24V (16.8-45V)	12V 24V	12.5A 6.25A	150W
110RCM150-12 110RCM150-12	110V (50.4-137.5 V)	12V 24V	12.5A 6.25A	150W
24RCM300-12 24RCM300-24	24V (16.8-45V)	12V 24V	25 A 12.5A	300W

RUGGED 3U CASSETTES (MELCHER)

The MELCHER portfolio of rugged DC-DC and AC-DC cassette-style power converters features extremely robust electrical and mechanical designs that provide consistent power to a diverse array of applications. The cassettes boast ultra-wide output voltage adjustment and extremely wide input range covering battery applications from 12V to 220V nominal, offering output power from 50 to 300W.



Features and benefits

- EN 50155, EN 50121-3-2 and EN 45545 compliant
- Ultra-wide input range 12.5 to 154VDC
- 1 - 4 outputs, total power up to 192W
- EN 50155 and EN 45545 compliant
- 10ms interruption time
- High reliability: "fit and forget"
- Compatible with legacy models (P series)
- Accessories available

Applications

- Railway
- Mobility
- Signalling
- Communications
- Transportation
- Industrial infrastructure

Model*	AC input voltage	DC input voltage	Output voltages	# of outputs	Power
M Series (8TE)	85-264VAC*	8-385VDC (6 ranges)	5-60;±12,±15;5/±12,5/±15V	1,2 or 3	50W
S Series (12TE)	85-264VAC* (PFC)	8-385VDC (6 ranges)	5,12,15,24,48;±12,±15,±24V	1 or 2	100W
K Series (16TE)	85-264VAC* (PFC)	8-385VDC (6 ranges)	5,12,15,24,48;±12,±15,±24V	1 or 2	150W
LKP Series (16TE)	187-255VAC (PFC)	N/A	12,24,48;±12,±24V	1 or 2	250W
T Series (28TE)	70-140; 85-255VAC (PFC)	N/A	24-54.5V	1	500W
Q Series (4TE)	N/A	14.4-154VDC (5 ranges)	3.3-48;±5,±12,±15,±24V	1 or 2	82-132W
P Series (4TE)	N/A	14.4-154VDC (5 ranges)	3.3-96V	1,2,3 or 4	100-192W
HP (4TE)	N/A	12.5-154VDC (1 range)	5-96V	1,2,3 or 4	120-192W
HR (12,16TE)	N/A	12-168VDC (1 range)	±12,±15,±48V	1 or 2	144-288W
ER Series (12,16TE)	N/A	66-168VDC (1 range)	±12,±15,±48V	1 or 2	144-288W
LR Series (12,16TE)	90-264VAC (PFC)	N/A	±12,±15,±48V	1 or 2	210-300W

*47-440Hz # 1 TE=20 inches

IMX/IMY SERIES DC-DC CONVERTERS (MELCHER)

Bel Power Solutions offers a wide range of PCB-mount DC-DC converters that are specifically designed and manufactured for the railway and transportation markets.



Features and benefits

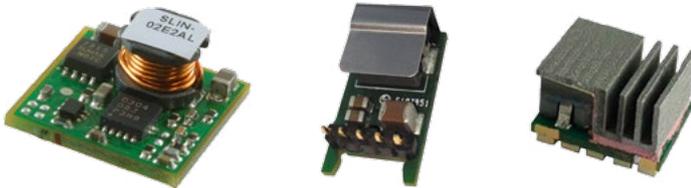
- IBX15 and IMY70/IMY15 series combined offer a 10:1 ratio input platform for battery voltages from nominal 24V to 110V, with a multitude of isolated DC output options
- The IMY range of DC-DC converters combines single or multiple output voltages between 3.3V–48V with up to 90W of power
- They are available in various wide DC input voltage ranges with or without isolation from 7–154VDC

Series	V _{IN}	V _{OUT}	I _{OUT}
IMX4	4.7–121V	3.3–48V	1.2A
IMX7	8.4–150V	3.3–48V	2.1A
IMX15/IMY15	8.4–150V	3.3–48V	4.5A
IMX35	9–150V	5–60V	7A
IMX70/IMY70	12–154V	5–48V	16A
IBX15 (unisolated)	8–154V (3 ranges)	25–154V (2 ranges)	1.6–3.0A
ORQB	9–36V	12V	13A
ORQB	14–154V	5V	3A
ASQ24*	18–36V	1.5–15V	15A
ASQ28*	18–36V	1.5–5V	15A
ASQ48*	36–75V	1.5–5V	15A

*Startup at -55°C operating temperature up to 100°C baseplate

NON-ISOLATED POINT OF LOAD CONVERTERS

The non-isolated PoL product offering is one of the broadest in the industry with cost-effective solutions ranging from 1A to 150A. Converters are available in industry standard form factors and trim equations, with enhanced features and performance.



Series	V _{IN}	V _{OUT}	I _{OUT}
SLIN	2.4–14V	0.59–5.5V	2–50A
SLAN	3–14.4V	0.6–5.5V	3–40A
SLDN	3–14.4V	0.45–5.5V	3–40A
SLIM	3–14.4V	0.45–5.5V	6–12A
SLDM*	3–14.4V	0.45–5.5V	6–12A

*Ultra thin modules with a maximum height of 0.11 inches/2.8 mm

Part Number Active High	V _{IN}	V _{OUT}	I _{OUT-MAX}	Power
SRPE-02E1A0	5.5–13.2V	0.6–5.5V	1.5A	8W
SRPE-03E1A0	5.5–13.2V	0.6–5.5V	3A	16.5W
SRPE-06E1A0	5.5–13.2V	0.6–5.5V	6A	33W
SRPE-12E1A0	5.5–13.2V	0.6–5.5V	12A	66W
SRPE-20E1A0	4.5–13.2V	0.6–2.0V	20A	40W
SRPE-30E1A0	4.5–13.2V	0.6–2.0V	30A	60W
SRPE-50E1A0	7.5–13.2V	0.6–2.0V	50A	100W

Features and benefits

TSLxx series with Tunable Loop™

- Max output power 10W–100W
- Remote on/off
- Adjustable output voltage
- Output voltage sequencing option
- PMBus enabled versions
- Over-current and over-temperature protection

SRPE point of load modules

- Vertical surface mount configuration
- Compensation-less COT control
- Under-voltage lockout
- Remote on/off
- Over-current and short circuit protection

VRPL and SRxL power block series

- High power in a small footprint
- Self-contained thermal management
- Used with either digital or analogue controllers
- High efficiency
- Superior power density
- Easily modified

Part Number	V _{IN}	V _{OUT}	I _{OUT-MAX}	Power
VRPL-06G1A0	8–14V	0.8–3.3V	6A	19.8W
SRPL-06G1A0	8–14V	0.8–3.3V	6A	19.8W
SRBB-20A1A0	7–13.2V	0.8–5.0V	20A	100W
VRPL-20G1A0	8–14V	0.8–3.3V	20A	66W
SRPL-20G1A0	8–14V	0.8–3.3V	20A	66W
SRBL-30A1A0	7–13.2V	0.8–5.0V	30A	150W
VRPL-30G1A0	8–14V	0.8–3.3V	30A	99W
SRPL-30G1A0	8–14V	0.8–3.3V	30A	99W
SRBL-60A1AC	8–13.2V	0.8–3.3V	60A	198W
SRBL-C3A1AC	8–13.2V	0.8–3.3V	130A	429W

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