



# LEADING THE ADVANCEMENT OF POWER CONVERSION

DC-DC Product Selection Guide 2020

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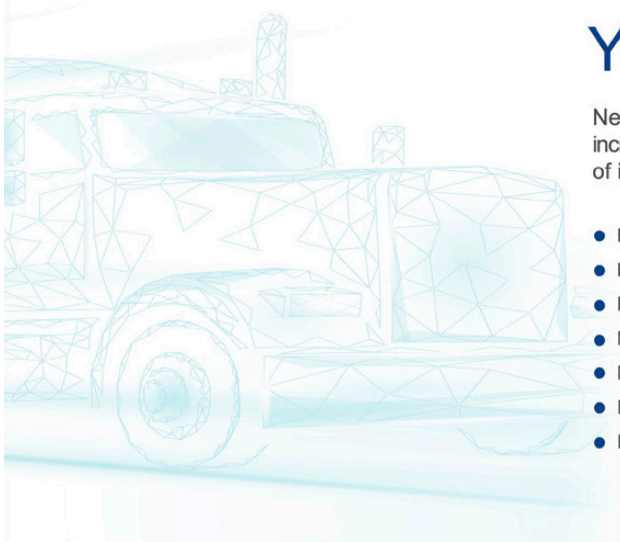
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## Your Reliable Partner

NetPower is committed to meeting customer requirements and increasing customer satisfaction through the continual improvement of its products and the quality management system.

- Extensive Experience in High-Reliability Designs
- Leading Efficiencies - up to 97%
- High Power Density - up to 800W in a Quarter Brick Package
- Millions of Hours of MTBF
- Millions of Products Used Worldwide
- In-Depth Application Support and Flexible Order Fulfillment
- ISO9001, ISO14001, IATF 16949 Certified Facilities

## Isolated DC-DC Converters

### Features

- High efficiency using synchronous rectifiers
- 8:1, 4:1 and 2:1 input range
- Output power from 1W to multi-kilowatts
- Over-voltage, over-current, short-circuit, and over temperature protections
- Adjustable output voltage
- Fixed frequency operation
- Current sharing on selected products
- Wide operating temperature range

### Packaging

- Industry standard footprint
  - Full brick: 4.46" x 2.28"
  - Half brick: 2.41" x 2.28"
  - Quarter brick: 2.28" x 1.46"
  - Eighth brick: 2.30" x 0.91"
  - Sixteenth brick: 1.31" x 0.91"
  - Thirty-second brick: 0.93" x 0.76"
- Open frame, baseplate, encapsulated, conformal coating, SMD, DIP, chassis mounting, DIN-rail

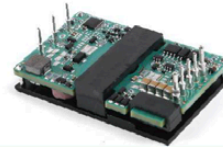
### Safety

- UL 62368 recognized
- Basic and reinforced insulation

## Industrial and Telecom DC-DC Converters

### 9-75VDC Input

#### Brick Converters (26W~150W)



Series	Power	Efficiency	Output Voltage				Isolation	Package
			3.3V	5V	12V	15V		
S(Y)RS5 <sup>①</sup>	26W 36W	Up to 93%	8A <sup>②</sup>	6A	3A <sup>②</sup>		1500VDC	Sixteenth brick
Q(Y)PS5 <sup>①</sup>	84W 120W	Up to 93%			7A 10A	8A	2250VDC	Quarter brick

### 9-36VDC Input

#### Lower Power Converters (3W~20W)

Series	Power	Efficiency	Output Voltage											Isolation	Package	
			3.3V	5V	9V	12V	15V	24V	±5V	±9V	±12V	±15V	±24V			
LMS1-STC	3W	Up to 83%		600mA		250mA	200mA	125mA							1500VDC	SMD
LMS1-ZPC <sup>③</sup> LMB1-ZPC	5W 6W	Up to 88%	1.5A	1.2A	667mA	500mA	400mA	250mA	±600mA	±333mA	±250mA	±200mA	±125mA	1500VDC	DIP	
LMS1-YMC <sup>③</sup> LMB1-YMC	5W 6W 8W 10W	Up to 88%	1.5A 2.4A	1.2A	667mA 1.111A	500mA 833mA	400mA 667mA	250mA 416mA	±600mA ±1A		±250mA ±416mA	±200mA ±333mA	±125mA ±208mA	1500VDC	DIP	
LMS1-PPC <sup>③</sup> LMB1-PPC	5W 6W	Up to 88%	1.5A	1.2A	667mA	500mA	400mA	250mA	±600mA		±250mA	±200mA		3000VDC	DIP	
LMS1-LPC <sup>③</sup> LMB1-LPC	8W 10W 17W 20W	Up to 89%	2.4A 5A	2A	1.111A	833mA	667mA	416mA	±1A		±416mA	±333mA		3000VDC	DIP	
LMS1-LDC <sup>③</sup> LMB1-LDC	17W 20W	Up to 90%	5A	4A	2.222A	1.667A	1.333A	834mA	±2A	±1.111A	±834mA	±667mA		1500VDC	DIP	

①: Y stands for encapsulated converters

②: To be released

③: S stands for single output  
B stands for dual outputs





**9-36VDC Input**  
Brick Converters (15W~300W)

Series	Power	Efficiency	Output Voltage										Isolation	Package	
			3.3V	5V	6V	8V	12V	13.8V	15V	28V	48V	56V			
M(Y)RS1 ①	15W ┆ 28W	Up to 88%	7A	3A 5A		3A	2A					1A		1500VDC	Thirty-second brick
L(Y)RS1 ①	25W	Up to 86.5%	7A <sup>②</sup>				1.5A <sup>②</sup>							1500VDC	1x1
S(Y)RS1 ①	24W ┆ 60W	Up to 92%	10A 15A	8A 10A 12A	5A	3A 4A 7A	3A 5A		2A 3A 4A				1500VDC	Sixteenth brick	
E(Y)RS1 ①	75W ┆ 140W	Up to 92%		20A 25A			8A 10A	7A	5A 8A	3A 5A			2250VDC	Eighth brick	
Q(Y)PS1 ①	99W ┆ 200W	Up to 93%	30A	30A 40A			12A			5A	3A	2A	2250VDC	Quarter brick	
H(Y)PS1 ①	240W ┆ 304W	Up to 91%		50A			20A	22A	20A	10A			2250VDC	Half brick	

**18-36VDC Input**  
Brick Converters (15W~600W)

Series	Power	Efficiency	Output Voltage										Isolation	Package
			3.3V	5V	6V	8V	12V	15V	28V	48V	50V			
M(Y)RS2 ①	15W ┆ 45W	Up to 88%	10A	8A	5A	5A	3A	1A 3A	1.5A				1500VDC	Thirty-second brick
S(Y)RS2 ①	18W ┆ 90W	Up to 92%	10A 15A 25A	8A 12A 17A	3A 6A 10A 12A	8A 11A	3A 7.5A	3A 6A	2.5A				1500VDC	Sixteenth brick
E(Y)RS2 ①	50W ┆ 140W	Up to 92.5%	20A 35A	10A 15A 25A		15A	10A	8A	3A 4A 5A	2A			2250VDC	Eighth brick
Q(Y)PS2 ①	120W ┆ 240W	Up to 92%	60A	25A 40A	33A	25A	10A 17A 20A		5A 7A	4A			2250VDC	Quarter brick
Q(Y)BC2 ①	250W ┆ 360W	Up to 92.5%		50A			25A 30A		11A <sup>②</sup>				2250VDC	Quarter brick
H(Y)PS2 ①	280W ┆ 600W	Up to 93%		80A		50A 65A	38A 50A		10A 17A	10.5A	10A		2250VDC	Half brick

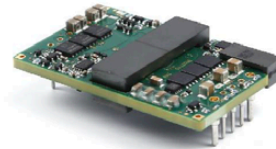
①: Y stands for encapsulated converters  
②: To be released



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## 18-75VDC Input Lower Power Converters (5W~20W)

Series	Power	Efficiency	Output Voltage										Isolation	Package	
			3.3V	5V	9V	12V	15V	24V	±5V	±12V	±15V	±24V			
LMS3-ZPC LMB3-ZPC	5W 6W	Up to 88%	1.5A											1500VDC	DIP
LMS3-YMC LMB3-YMC	5W 6W 8W 10W	Up to 88%	1.5A 2.4A	1.2A		500mA 833mA	400mA 667mA	250mA 416mA	±600mA ±1A	±250mA ±416mA	±200mA ±333mA	±208mA	1500VDC	DIP	
LMS3-PPC	5W 6W	Up to 88%	1.5A	1.2A		500mA	400mA	250mA					3000VDC	DIP	
LMS3-LPC LMB3-LPC	8W 10W 17W 20W	Up to 89%	2.4A 5A	2A		833mA 1.667A	667mA 1.334A	416mA 833mA	±1A	±416mA	±333mA		3000VDC	DIP	
LMS3-LDC LMB3-LDC	17W 20W	up to 90%	5A	4A		1.667A	1.333A	834mA	±2A	±834mA	±667mA		1500VDC	DIP	



## Brick Converters (20W~360W)

Series	Power	Efficiency	Output Voltage								Isolation	Package	
			3.3V	5V	8V	12V	15V	28V	32V	48V			
L(Y)RS3-W <sup>①</sup>	20W	Up to 87%	7A	4A		1.5A						2250VDC	1x1
S(Y)RS3-W <sup>①</sup>	32W ↕ 72W	Up to 92%	10A 15A 20A	8A 10A 12A	4A 7A	3A 5A 6A	3A 4A					1500VDC	Sixteenth brick
E(Y)RS3-W <sup>①</sup>	45W ↕ 144W	Up to 92%	20A 30A 35A	9A 14A 20A	15A	6A 9A 10A		4A 5A	3A	3A		2250VDC	Eighth brick
Q(Y)PS3-W <sup>①</sup>	99W ↕ 228W	Up to 93.5%	35A 60A	25A 40A	25A	11A 17A 19A	13A	5A			2A	2250VDC	Quarter brick
H(Y)PS3-W <sup>①</sup>	250W ↕ 360W	Up to 91%		50A		30A						2250VDC	Half brick

①: Y stands for encapsulated converters

③: S stands for single output

B stands for dual outputs

### 36-75VDC Input Brick Converters (15W~800W)



Series	Power	Efficiency	Output Voltage													Isolation	Package
			1.5V	2.5V	3.3V	5V	8V	9.6V	12V	15V	24V	28V	30V	48V	54V		
MRS4	15W ↓ 40W	Up to 89.2%			10A	3A 5A 8A			3A							1500VDC	Thirty-second brick
SRS4	33W ↓ 99W	Up to 92.5%	25A 30A	20A 30A	10A 15A 18A 25A 30A	8A 12A 13A 17A	8A 11A		3A 5A 8A	6A		2.5A	3A			1500VDC	Sixteenth brick
ERS4	30W ↓ 144W	Up to 93%	20A 30A 40A	25A 35A	15A 20A 25A 30A 40A	10A 15A 20A			5A 7A 10A	5A		5A		3A		2250VDC	Eighth brick
EBC4	175W ↓ 280W	Up to 95%			60A	35A 42A		26A				10A				2250VDC	Eighth brick
EBE4	204W ↓ 360W	Up to 95%							17A 22A 30A							2250VDC	Eighth brick
EDS4 (digital)	360W	Up to 93%							30A <sup>②</sup>							1500VDC	Eighth brick
QPS4	96W ↓ 240W	Up to 93.5%	65A 100A	60A	55A	40A	30A		17A 20A	13A				2A 2.5A		2250VDC	Quarter brick
QBC4	300W ↓ 480W	Up to 95.5%				60A 70A		41.5 A	28A 33A		14A 20A					2250VDC	Quarter brick
QBE4	424W ↓ 720W	Up to 95.5%					53A	53A	42A 50A 60A					15A <sup>②</sup>		2250VDC	Quarter brick
QDS4 (digital)	396W	Up to 95.5%							33A							2250VDC	Quarter brick
HPS4	300W ↓ 500W	Up to 94%				80A			25A 30A			18A		10A	10A	2250VDC	Half brick
HDS4 (digital)	600W	Up to 94.5%									25A <sup>②</sup>					2250VDC	Half brick
FPS4	700W ↓ 800W	Up to 93.5%										25A 28A				2250VDC	Full brick

### 40-60VDC Input Brick Converters (500W~800W)

Series	Power	Efficiency	Output Voltage	Isolation	Package
			12V		
EBE4	500W	Up to 95.2%	40A	2250VDC	Eighth brick
QBE4	800W	Up to 96.8%	67A	2250VDC	Quarter brick



②: To be released

## High Input Voltage DC-DC Converters

### Highlights

- High efficiency up to 94%
- Output power up to 1008W
- Current share available
- 4250VDC and 2250VDC input to output isolation
- Industry standard footprint
- Encapsulated for harsh environments

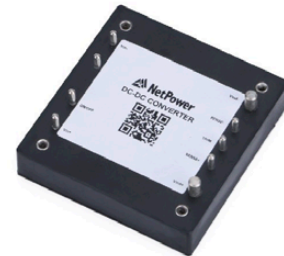


### 180-400VDC Input

Series	Power	Efficiency	Output Voltage						Isolation	Package	
			5V	12V	15V	28V	48V	56V			
HYUEA	300W ↑ 400W	Up to 92%	60A	25A			11A	7A	6A	4250VDC	Half brick
FYUEA	500W ↑ 800W	Up to 94%	100A	67A	54A		28A	17A	14A	4250VDC	Full brick

### 300-500VDC Input

Series	Power	Efficiency	Output Voltage					Isolation	Package
			5V	8.5V	12V	28V	48V		
HYVEC	300W ↑ 400W	Up to 91.5%	60A			14.5A		2250VDC	Half brick
FYVEC	663W ↑ 1000W	Up to 93%		78A	80A	28A 36A	21A	2250VDC	Full brick



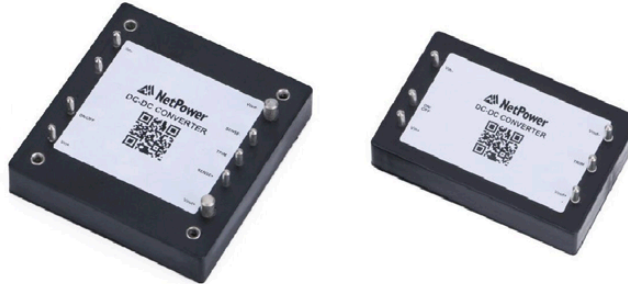
### 400-650VDC Input

Series	Power	Efficiency	Output Voltage				Isolation	Package	
			12V	28V	36V	48V			
HYVGA	360W	Up to 90%	30A	12.5A			2250VDC	Half brick	
FYVGA	540W ↑ 1008W	Up to 92%	57A	28A 36A	15A 17A 22A		17A	2250VDC	Full brick

## Railway DC-DC Converters (Compliant to EN50155)

### Highlights

- High efficiency up to 92%
- Output power up to 800W
- 3000VAC input to output isolation
- Wide input ranges: 4:1, 8:1, 12:1
- Encapsulated for harsh environments
- Design to meet EN50155



### 16-160VDC Input

Series	Power	Efficiency	Output Voltage			Isolation	Package
			5V	12V	24V		
QYR9S	50W	Up to 87%	10A	4.2A	2.1A	3000VAC	Quarter brick

### 34-160VDC Input

Series	Power	Efficiency	Output Voltage				Isolation	Package
			5V	12V	24V	48V		
QYR6A	60W 150W	Up to 91%	24A	5A 10A	3A 5A	2.5A 3.2A	3000VAC	Quarter brick
HYR6A	250W	Up to 91%	50A	20A	10A		3000VAC	Half brick

### 66-160VDC Input

Series	Power	Efficiency	Output Voltage						Isolation	Package
			5V	12V	13.8V	24V	48V	56V		
QYR7A	150W	Up to 90%	25A	12A	7A <sup>①</sup>	6A	3A	3.3A	3000VAC	Quarter brick
HYR7A	240W 300W	Up to 91%	50A 60A	20A 25A	22A <sup>①</sup>	10A 12.5A	5A 6.3A		3000VAC	Half brick
FYR7A	300W 400W	Up to 92%		25A 33A		16.7A	6.3A 8.3A		3000VAC	Full brick
FYV7A	800W	Up to 92%		66A		33A	17A		3000VAC	Full brick

①: Input Voltage 43-160V

②: To be released

## Non-Isolated DC-DC Converters

### Features

- High efficiency up to 96%
- Multiple input voltage ranges
- Over-voltage, over-current, short-circuit, and over temperature protections
- Output voltage tracking on selected codes
- High current up to 200A
- Load sharing on selected codes

### Packaging

- Standard footprints
- SMT, SIP, BMP and Through-hole packages
- Open frame, baseplate and encapsulated

### Safety

- UL 60950-1 2<sup>nd</sup> recognized

### 2.5-5.5VDC Input

Input Voltage (V)	Series	Output Voltage (V)	Output Current (A)	Efficiency	Package	Size (in)
2.5-5.5	NAT0	0.75-3.63	12-20	Up to 96%	SIP	2.00 x 0.50 x 0.25
	NAS0	0.75-3.63	12-20		SMT	1.30 x 0.53 x 0.25
	NBS0	0.75-3.63	8		SMT	1.10 x 0.45 x 0.25

### 4-18VDC Input

Input Voltage (V)	Series	Output Voltage (V)	Output Current (A)	Efficiency	Package	Size (in)
4.5-14	NKS1	0.59-5.5	6-12	Up to 93.3%	SMT	0.48 x 0.48 x 0.35
7.0-14	NRT1	1.2-6	10	Up to 95%	SIP	0.42 x 0.66 x 0.38
8.0-14	NHT1	0.5-1.6	100 120 200 <sup>②</sup>	Up to 92%	SMT, SIP, Horizontal TH	2.05 x 1.10 x 0.64 2.70 x 1.20 x 0.64
8.0-16	NCT1	0.8-5.5	45-60	Up to 93%	SMT, SIP, Horizontal TH	2.00 x 0.68 x 0.39
8.5-16	NBS1	0.75-5.5	8	Up to 91%	SMT	1.10 x 0.45 x 0.25
8.5-18	NAT1	0.75-5.5	12-20	Up to 96%	SIP	2.00 x 0.50 x 0.25
	NAS1	0.75-5.5	12-20		SMT	1.30 x 0.53 x 0.25
	NES1	0.75-5.5	16-30		SMT	1.30 x 0.53 x 0.38

### 9-60VDC Input

Input Voltage (V)	Series	Output Voltage (V)	Output Current (A)	Efficiency	Package	Size (in)
9-36	NAT2	3-6	10	Up to 88%	SIP	2.00 x 0.50 x 0.25
	NAS2	3-6	10		SMT	1.30 x 0.53 x 0.25
	NBS2	3-6	3.5		SMT	1.10 x 0.45 x 0.25
9-53	N(Y)XS	3.3-36	12, 20, 26	Up to 97%	BMP	1.31 x 0.91 x 0.37
9-60	NYWH5	0-60	40	Up to 97%	BMP	2.40 x 2.50 x 0.51
9-60	NYWQ5	0-60	25 <sup>②</sup>	Up to 97%	BMP	2.40 x 1.55 x 0.50
18-36	NAT3	5-15.5	9	Up to 94%	SIP	2.00 x 0.50 x 0.25
	NAS3	5-15.5	9		SMT	1.30 x 0.53 x 0.25
	NBS3	5-15.5	3.5		SMT	1.10 x 0.45 x 0.25
18-36	NPS3	0.9-3.3	15	Up to 80%	SMT	1.10 x 0.72 x 0.37

②: To be released



## VPX Power Supplies

The VPX power supplies are compliant with VITA 62, MIL-STD-704, MIL-STD-461 and MIL-STD-810G. These VPX power supplies have up to 6 outputs and deliver up to 1000W total power with a typical efficiency of 90%. Available in 3U and 6U packages, these VPX power supplies are designed for conduction cooling and are equipped with high speed backplane connectors.

### Highlights

- 18-400VDC and 85-264VAC input voltage ranges
- Output power up to 1000W
- Built-in input EMI filtering
- Input reverse polarity protection
- Current share available
- Industry standard packages
- Operating temperature range: -40°C to +85°C



Series	Package	Power	Efficiency	Input Voltage	Output Voltage (VDC)					
					+12V	+5V	+3.3V	+3.3V AUX	+12V AUX	-12V AUX
VPX	3U	500W	88%	18-36VDC	0-40A	0-25A	0-25A	0-6A	0-1A	0-1A
VPX	3U <sup>②</sup>	620W	88%	34-75VDC	0-50A	0-25A	0-25A	0-6A	0-1A	0-1A
VPX	6U <sup>②</sup>	1000W	90%	18-36VDC	0-80A	0-30A	/	0-15A	0-1A	0-1A
VPX	6U <sup>②</sup>	900W	90%	180-400VDC	0-64A	0-30A	/	0-40A	0-1A	0-1A
VPX	6U <sup>②</sup>	432W	90%	85-264VAC	0-25A	0-30A	/	0-40A	0-1A	0-1A

## Current Share Modules

### Highlights

- 50V maximum voltage
- 60A maximum current
- 5% current share accuracy
- ORing-FET included
- Support N+1 redundancy
- Low loss and small footprint



Part Number	Input	Output	Package
BCS3A060	2-13V/60A	2-13V/60A	1/32 Brick
BCS8A060	9.5-18V/60A	9.5-18V/60A	1/32 Brick
BCS0E030	11-50V/30A	11-50V/30A	1/32 Brick

②: To be released



## DC-DC EMI Filters

The PFT series EMI filters are designed to attenuate both differential-mode and common-mode conducted noises generated by DC-DC converters. These filters are optimized to provide high insertion loss over the entire frequency range regulated by FCC and CISPR for conducted emissions. These EMI filter modules support up to 80V operating voltages.

### Highlights

- 80V maximum input voltage
- Compatible to most industry standard DC-DC converters
- Industry standard package
- Wide operating temperature range: -40°C to +100°C

Part Number	Description	Input	Output	Size (in)
PFT0H005J5 PFT0H005J8	Filter	80V/5A	80V/5A	0.93×0.93×0.41 1.00×1.00×0.50
PFT0H007J5 PFT0H007J8	Filter	80V/7A	80V/7A	0.93×0.93×0.41 1.00×1.00×0.50
PFT0H010J5 PFT0H010J8	Filter	80V/10A	80V/10A	1.82×0.88×0.41 2.04×1.04×0.50
PFT0H012J5 PFT0H012J8 <sup>②</sup>	Filter	80V/12A	80V/12A	1.82×0.88×0.41 2.04×1.04×0.50
PFT0H020J5 PFT0H020J8	Filter	80V/20A	80V/20A	1.89×1.50×0.41 2.04×1.69×0.50
PFT0H030J5 <sup>②</sup>	Filter	80V/30A	80V/30A	2.28×0.90×0.41



## Heatsinks

### Standard Brick Size Heatsink

NetPower heatsinks are suitable for industry standard DC-DC power modules and are available in various sizes and fin orientations. These heatsinks improve thermal performance of power modules in convection cooling.

Size and Part Number	Height (mm)	Orientation
1/16 HSxxxLSA	6.0/11.4/22.9	Lengthwise
1/16 HSxxxCSA	6.0/11.4/22.9	Crosswise
1/8 HSxxxLEA	6.0/11.4	Lengthwise
1/8 HSxxxCEA	6.0/11.4	Crosswise
1/8 HS229LEB	22.9	Lengthwise
1/8 HS229CEB	22.9	Crosswise
1/4 HSxxxLQA	6.0/11.4/22.9	Lengthwise
1/4 HSxxxCQA	6.0/11.4/22.9	Crosswise
1/2 HSxxxLHA <sup>②</sup>	6.0/11.4/22.9	Lengthwise
1/2 HSxxxCHA	6.0/11.4/22.9	Crosswise
Full HSxxxLFA	6.0/11.4/22.9	Lengthwise
Full HSxxxCFA <sup>②</sup>	6.0/11.4/22.9	Crosswise



②: To be released

## Custom Power Supplies & Accessories

Based on its mature platforms or standard modular products, NetPower can quickly design and develop semi and full custom products. The customization may range from minor changes to the standard products to full custom designs to satisfy specific electrical, mechanical, thermal, and environmental requirements.

### Custom Power Supplies

#### Highlights

- Mature technology and proven high reliability
- Wide input range and power ratings
- Excellent thermal performance
- Low noise
- High efficiency and power density
- Protection against abnormal conditions
- Fast development cycle

#### Examples:



Input: 120-240VAC/190-380VDC

Output : 52VDC/150W

Efficiency : 88%

Size : 214 × 66 × 41.5 mm



Input: 26-72VDC

Output: 3.3VDC, +/-5.1VDC,  
10.4/8.6VDC(switchable)13VDC

Efficiency: 80%

Size: 106 × 58 × 15.4 mm

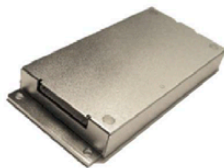


Input: 36-75VDC

Output: 12V/450W

Efficiency: 95.5%

Size: 58.1 × 37.1 × 15.3 mm



Input: 26-72VDC

Output: 3.3VDC, +/-5.1VDC,  
10.4/8.6VDC(switchable)13VDC

Efficiency: 87%

Size: 115 × 60 × 17 mm



Input: 18-36VDC

Output: 56VDC/250W

Efficiency: 90%

Size: 206.5 × 129.4 × 21.7 mm



Input: 19-36VDC

Output: 56VDC/400W

Efficiency: 91%

Size: 230 × 145 × 45 mm

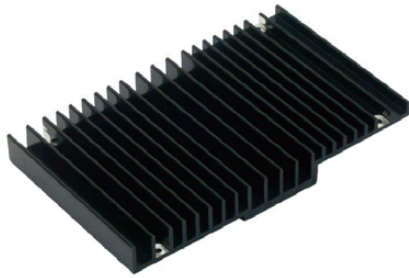
 **NetPower** DC-DC Product Selection Guide 2020

## Custom Heatsink

### Highlights

- Different sizes and fin orientations are available
- CNC and extrusion process
- Anodized surface
- Wiredrawing and sand blasting
- Fast development cycle

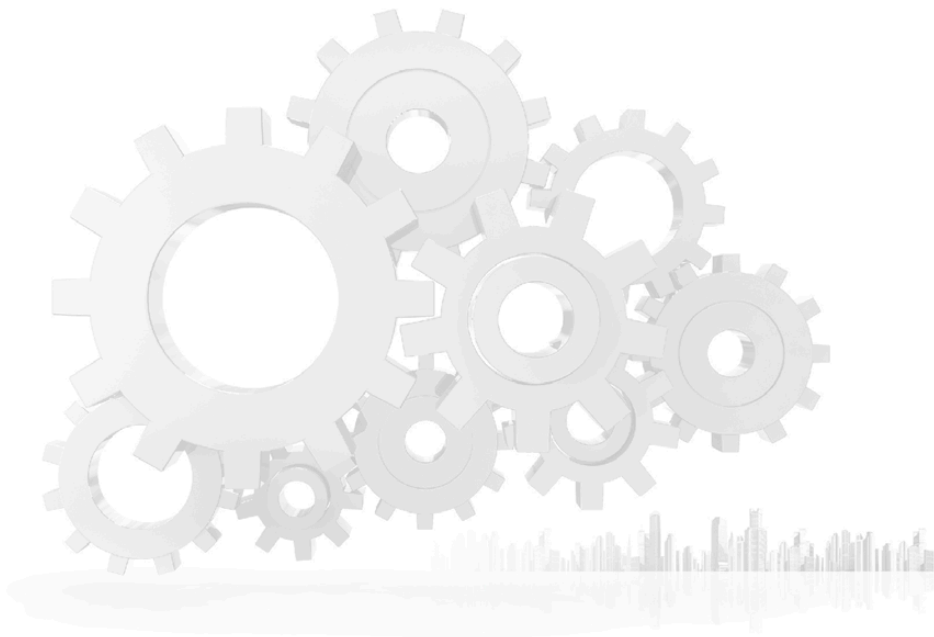
### Examples:



Size: 154.00×94.00×19.45 mm

Material: Aluminum

Surface: Black oxidation





## Standard Package & Size

Unit: mm (LxWxH)

Package	Open Frame	Baseplate	Encapsulated Baseplate	Encapsulated Flange
1/32 Brick	23.6 x 19.3 x 10.7	25.9 x 19.3 x 12.7	28.7 x 22.1 x 12.7	43.4 x 22.1 x 12.8
1/16 Brick	33.3 x 23.1 x 9.8	33.3 x 23.1 x 12.7	36.2 x 26.1 x 12.7	36.2 x 38.1 x 12.8
1/8 Brick	58.4 x 22.8 x 9.8	58.4 x 22.8 x 12.7	61.5 x 25.8 x 12.7	61.5 x 36.8 x 12.8
1/4 Brick	58.2 x 37.1 x 10.0	58.2 x 37.1 x 12.7	61.0 x 39.4 x 12.7	61.0 x 55.9 x 12.8
1/2 Brick	58.2 x 61.2 x 10.0	58.2 x 61.2 x 12.7	61.0 x 63.5 x 12.9	/
Full Brick	113.3 x 57.9 x 10.2	116.8 x 61.0 x 12.7	116.2 x 60.9 x 12.9	/



## NetPower Sales Channels

