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NetPower

LEADING THE ADVANCEMENT OF POWER CONVERSION

DC-DC Product Selection Guide 2019

www.netpowercorp.com

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
- Made-in-USA Capability

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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 60950-1 recognized
- Basic and reinforced insulation

Industrial and Telecom DC-DC Converters

9-18VDC Input / Low Power Converters (6W)

Series	Power	Efficiency	Output Voltage		Isolation	Package
			±5V	±12V		
LMB0-YMC①	6W	Up to 85%	±600mA	±250mA	1500VDC	DIP

①: B stands for dual outputs

9-36VDC Input / Brick Converters (15W~280W)

Series	Power	Efficiency	Output Voltage										Isolation	Package
			3.3V	5V	6V	8V	12V	13.8V	15V	28V	48V	56V		
M(Y)RS1①	15W 28W	Up to 88%	7A	3A 5A		3A	2A			1A			1500VDC	Thirty-second brick
L(Y)RS1①	25W	Up to 86.5%	7A②				2A②						1500VDC	1x1
S(Y)RS1①	30W 45W 60W	Up to 92%	10A 15A	8A 10A 12A	5A	3A 4A 7A	3A 5A		2A 3A 4A				1500VDC	Sixteenth brick
E(Y)RS1①	75W 100W 140W	Up to 92%		20A 25A			8A 10A		5A 8A	3A 5A			2250VDC	Eighth brick
Q(Y)PS1①	100W 150W 200W	Up to 93%	30A	30A 40A			12A			5A	3A	2A	2250VDC	Quarter brick
H(Y)PS1①	250W 300W	Up to 91%		50A			20A	22A	20A	8A			2250VDC	Half brick

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

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-STC①	3W	Up to 83%		600mA		250mA	200mA	125mA						1500VDC	SMD
LMS1-ZPC LMB1-ZPC①	5W 6W	Up to 88%	1.5A	1.2A	667mA	500mA	400mA	250mA	±600mA	±333mA	±250mA	±200mA	±125mA	1500VDC	DIP
LMS1-YMC LMB1-YMC①	5W 6W 8W 10W	Up to 88%	1.5A 2.4A	1.2A 2A	667mA 1.111A	500mA 833mA	400mA 667mA	250mA 416mA	±600mA ±1A	±555mA	±250mA ±416mA	±200mA ±333mA	±125mA ±208mA	1500VDC	DIP
LMS1-PPC LMB1-PPC①	5W 6W	Up to 88%	1.5A	1.2A	667mA	500mA	400mA	250mA	±600mA		±250mA	±200mA		3000VDC	DIP
LMS1-LPC LMB1-LPC①	8W 10W 17W 20W	Up to 89%	2.4A 5A	2A 4A	1.111A 2.222A	833mA 1.667A	667mA 1.334A	416mA 833mA	±1A		±416mA	±333mA		3000VDC	DIP
LMS1-LDC LMB1-LDC①	17W 20W	Up to 90%	5A	4A	2.222A	1.667A	1.333A	834mA	±2A	±1.111A	±834mA	±667mA		1500VDC	DIP

①: S stands for single output
B stands for dual outputs

9-75VDC Input / Brick Converters (36W~150W)

Series	Power	Efficiency	Output Voltage					Isolation	Package
			3.3V	5V	12V	15V	28V		
S(Y)RS5 ①	36W	Up to 93%	8A②	6A	3A②			1500VDC	Sixteenth brick
Q(Y)PS5 ①	100W 150W	Up to 93%			7A 10A	8A		2250VDC	Quarter brick

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

18-36VDC Input / Brick Converters (20W~600W)

Series	Power	Efficiency	Output Voltage								Isolation	Package
			3.3V	5V	6V	8V	12V	15V	28V	48V		
M(Y)RS2 ①	30W 45W	Up to 88%	10A	8A	5A	5A	3A	1A 3A	1.5A		1500VDC	Thirty-second brick
S(Y)RS2 ①	20W 30W 50W 65W 100W	Up to 92%	10A 15A 25A	8A 12A 17A	3A 10A 12A	8A 11A	3A 7.5A	3A 6A	2.5A		1500VDC	Sixteenth brick
E(Y)RS2 ①	60W 75W 100W 150W	Up to 92.5%	20A 35A	10A 15A 25A		15A	5A 7A 10A	8A②	3A 4A 5A	2A	2250VDC	Eighth brick
Q(Y)PS2 ①	150W 200W 250W	Up to 92%	60A	25A 40A	33A	25A	10A 17A 20A		5A 7A	4A	2250VDC	Quarter brick
Q(Y)BC2 ①	300W 360W	Up to 92.5%		50A			25A 30A	11A②			2250VDC	Quarter brick
H(Y)PS2 ①	300W 400W 450W 500W 600W	Up to 93%		80A		50A 65A	38A 50A		10A 17A	10A	2250VDC	Half brick

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

Lower Power Converters (6W~20W)

Series	Power	Efficiency	Output Voltage										Isolation	Package
			3.3V	5V	9V	12V	15V	24V	±5V	±9V	±12V	±15V		
LMB2-YMC ①	6W	Up to 87%							±600mA		±250mA	±200mA	1500VDC	DIP
LMS2-LDC LMB2-LDC ①	15W 17W 20W	Up to 90%	5A	3A 4A	2.222A	1.25A 1.667A	1A 1.333A	625mA 834mA	±2A	±1.111A	±834mA	±667mA	1500VDC	DIP

①: S stands for single output
B stands for dual outputs

18-75VDC Input / Brick Converters (20W~360W)

Series	Power	Efficiency	Output Voltage							Isolation	Package
			3.3V	5V	8V	12V	15V	28V	48V		
L(Y)RS3-W ①	20W	Up to 87%	7A	4A		1.5A				2250VDC	1x1
S(Y)RS3-W ①	40W 50W 60W	Up to 92%	10A 15A	8A 10A 12A	4A 5A 7A	3A 5A 6A	3A 4A			1500VDC	Sixteenth brick
E(Y)RS3-W ①	50W 75W 100W 140W	Up to 92%	20A 30A 35A	9A 14A 20A	15A	6A 9A 10A		4A 5A		2250VDC	Eighth brick
Q(Y)PS3-W ①	100W 150W 220W	Up to 93.5%	35A 60A	25A 40A	25A	11A 17A 19A	13A	5A	2A	2250VDC	Quarter brick
H(Y)PS3-W ①	360W	Up to 91%				30A				2250VDC	Half brick

①: Y stands for encapsulated converters

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-ZPC①	5W 6W	Up to 88%	1.5A	1.2A	667mA	500mA	400mA	250mA	±600mA	±250mA	±200mA		1500VDC	DIP
LMS3-YMC LMB3-YMC①	5W 6W 8W 10W	Up to 88%	1.5A 2.4A	1.2A 2A		500mA 833mA	400mA 667mA	250mA 416mA	±600mA ±1A	±250mA ±416mA	±200mA ±333mA	±208mA	1500VDC	DIP
LMS3-PPC①	5W 6W	Up to 88%	1.5A	1.2A		500mA	400mA	250mA					3000VDC	DIP
LMS3-LPC LMB3-LPC①	8W 10W 17W 20W	Up to 89%	2.4A 5A	2A 4A		833mA 1.667A	667mA 1.334A	416mA 833mA	±1A	±416mA	±333mA		3000VDC	DIP
LMS3-LDC LMB3-LDC①	17W 20W	Up to 90%	5A	4A		1.667A	1.333A	834mA	±2A	±834mA	±667mA		1500VDC	DIP

①: S stands for single output
B stands for dual outputs

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

36-75VDC Input / Brick Converters (25W~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	25W 40W	Up to 89.2%			10A	5A 8A			3A							1500VDC	Thirty-second brick
SRS4	50W 75W 100W	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	40W 50W 75W 100W 140W	Up to 93%	20A 30A 40A	20A 25A 35A	15A 20A 25A 30A 40A	10A 15A 20A			5A 7A 10A	5A		5A		3A		2250VDC	Eighth brick
EBC4	200W 250W	Up to 95%			60A	35A 42A		26A				10A				2250VDC	Eighth brick
EBE4	200W 250W 360W	Up to 95%							17A 22A 30A							2250VDC	Eighth brick
EDS4 (digital)	360W	Up to 93%							30A							2250VDC	Eighth brick
QPS4	100W 200W	Up to 93.5%	65A 100A	60A	55A	40A	30A		17A	13A				2A 2.5A		2250VDC	Quarter brick
QBC4	300W 400W	Up to 95.5%				60A 70A		41.5A	28A 33A							2250VDC	Quarter brick
QBE4	400W 500W 600W 700W	Up to 95.5%					53A	53A	42A 50A 60A					15A①		2250VDC	Quarter brick
QDS4 (digital)	396W	Up to 95.5%							33A							2250VDC	Quarter brick
HPS4	300W 400W 500W	Up to 94%				80A			25A 30A			18A		10A	10A	2250VDC	Half brick
HDS4(digital)	600W	Up to 94.5%									25A					2250VDC	Half brick
FPS4	700W 800W	Up to 93.5%										25A 28A				2250VDC	Full brick

Lower Power Converters (15W~20W)

Series	Power	Efficiency	Output Voltage									Isolation	Package
			3.3V	5V	9V	12V	15V	24V	±5V	±12V	±15V		
LMS4-LDC LMB4-LDC①	15W 17W 20W	Up to 90%	5A	3A 4A	2.222A	1.25A 1.667A	1A 1.333A	625mA 834mA	±2A	±834mA	±667mA	1500VDC	DIP

①: S stands for single output
B stands for dual outputs

Railway DC-DC Converters (Compliant to EN50155)

Highlights

- High efficiency up to 92%
- Output power up to 792W
- 3000VAC input to output isolation
- Wide input ranges: 4:1, 8:1, 12:1
- Encapsulated for harsh environments
- Design to meet EN50155

34-160VDC Input

Series	Power	Efficiency	Output Voltage				Isolation	Package
			5V	12V	24V	48V		
QYR6A	60W 120W 150W	Up to 91%	10A① 24A	5A 10A	2A① 5A	1A① 2.5A 3.2A	3000VAC	Quarter brick
HYR6A	240W 250W	Up to 91%	50A	20A	10A	5A①	3000VAC	Half brick

①: To be released

43-160VDC Input

Series	Power	Efficiency	Output Voltage	Isolation	Package
			13.8V		
HYR7A	300W	Up to 91%	22A	3000VAC	Half brick

66-160VDC Input

Series	Power	Efficiency	Output Voltage						Isolation	Package
			5V	12V	13.8V	24V	48V	56V		
QYR7A	75W 150W	Up to 90%	15A① 25A	6A① 12A	7A①	3A① 6A	1.5A① 3A	3A①	3000VAC	Quarter brick
HYR7A	240W 250W 300W	Up to 91%	50A 60A	20A 25A	22A	10A 12.5A	5A 6.3A		3000VAC	Half brick
FYR7A	300W 400W	Up to 92%	60A①	25A①		13A①	6.25A 8.3A		3000VAC	Full brick
FYV7A	800W	Up to 92%		66A		33A	17A		3000VAC	Full brick

①: 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	28V		
HYVEC	300W 400W	Up to 91.5 %	60A		14.5A	2250VDC	Half brick
FYVEC	800W 1000W	Up to 93 %		78A	28A 36A	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	700W 800W 1000W	Up to 92%	57A	28A 36A	22A	17A	2250VDC	Full brick

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

- 18-36VDC input voltage range
- 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					
					+12V	+5V	+3.3V	+3.3V AUX	+12V AUX	-12V AUX
VPX	3U	500W	88%	18-36V	0-40A	0-25A	0-25A	0-6A	0-1A	0-1A
VPX	6U①	1000W	90%	18-36V	0-80A	0-30A	/	0-15A	0-1A	0-1A

①: To be released

DC-DC Battery Chargers

Highlights

- High efficiency up to 95%
- High power density: up to 100W/inch³
- Low profile, space saving
- 60-160VDC, 200-400VDC and 400-800VDC input voltages platforms
- Advanced CAN communication

Flexibility

- Fast development with modular solution
- Customized to fit the size and shape
- EMI filter included
- Open frame for integrated system and IP package for independent operation

Series	Input Voltage	Power Range	Efficiency	Output Voltage	Communication	Cooling Method
CD14K2-57L-1	65-120V	4.2KW	≥ 93%	55.0V	CAN	Liquid
CD12K2-14A-1	240-410V	2.24KW	≥ 95%	14.0V	CAN	Convection
CD13K3-14A-1	270-410V	3.3KW	≥ 95%	14.2V	CAN	Liquid
CD12K0-14B-1①	400-800V	2.0KW	≥ 95%	13.8V	CAN	Convection
CD13K0-28B-1①	400-800V	3.0KW	≥ 94%	28.0V	CAN	Liquid

①: 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 and Through-hole packages
- Open frame, baseplate and encapsulated

Safety

- UL 60950-1 2nd recognized

Point-of-Load Converters

Input Voltage (V)	Series	Output Voltage (V)	Output Current (A)	Efficiency	Package	Size (in)
2.5-5.5	NAT0 NAS0 NBS0	0.75-3.63 0.75-3.63 0.75-3.63	12-20 12-20 8	Up to 96%	SIP SMT SMT	2.00 x 0.50 x 0.25 1.30 x 0.53 x 0.25 1.10 x 0.45 x 0.25
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 200①	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 NAS1 NES1	0.75-5.5 0.75-5.5 0.75-5.5	12-20 12-20 16-30	Up to 96%	SIP SMT SMT	2.00 x 0.50 x 0.25 1.30 x 0.53 x 0.25 1.30 x 0.53 x 0.38
9-36	NAT2 NAS2 NBS2	3-6 3-6 3-6	10 10 3.5	Up to 88%	SIP SMT SMT	2.00 x 0.50 x 0.25 1.30 x 0.53 x 0.25 1.10 x 0.45 x 0.25
9-53	NXS5	3.3-15	26	Up to 97%	1/16 Brick	1.31 x 0.91 x 0.37
18-36	NAT3 NAS3 NBS3	5-15.5 5-15.5 5-15.5	9 9 3.5	Up to 94%	SIP SMT SMT	2.00 x 0.50 x 0.25 1.30 x 0.53 x 0.25 1.10 x 0.45 x 0.25

①: To be released

Low Power Non-isolated DC-DC Converters

Input Voltage(V)	Series	Output Voltage								Efficiency	Package	Size (mm)
		3V	5V	-5V	9V	12V	-12V	15V	-15V			
4.75-36	NM78-A50HE(-N)	500mA	500mA	-300mA	500mA	500mA	-150mA	500mA	-150mA	Up to 90%	SIP	11.60 x 7.55 x 10.16
4.75-36	NM78-A50HB(-N)	500mA	500mA	-300mA		500mA	-150mA	500mA	-150mA	Up to 91%	SIP	10.00 x 7.20 x 11.00
6-36	NM78-1A0HE(-N)	1A	1A	-500mA	1A	1A	-300mA	1A	-300mA	Up to 94%	SIP	11.50 x 9.00 x 17.50
6-36	NM78-1A0LE(-N)	1A	1A	-500mA	1A	1A	-300mA	1A	-300mA	Up to 94%	SIP	19.00 x 11.50 x 9.00
6-36	NM78-1A0HB(-N)	1A	1A	-500mA		1A	-300mA	1A	-300mA	Up to 94%	SIP	11.50 x 7.20 x 17.50

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 x 0.93 x 0.41 1.00 x 1.00 x 0.50
PFT0H007J5 PFT0H007J8	Filter	80V/7A	80V/7A	0.93 x 0.93 x 0.41 1.00 x 1.00 x 0.50
PFT0H010J5 PFT0H010J8	Filter	80V/10A	80V/10A	1.82 x 0.88 x 0.41 2.04 x 1.04 x 0.50
PFT0H012J5① PFT0H012J8①	Filter	80V/12A	80V/12A	1.82 x 0.88 x 0.41 2.04 x 1.04 x 0.50
PFT0H020J5 PFT0H020J8	Filter	80V/20A	80V/20A	1.89 x 1.50 x 0.41 2.04 x 1.69 x 0.50
PFT0H030J5①	Filter	80V/30A	80V/30A	2.28 x 0.90 x 0.41

①: To be released

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 No.	Height (mm)	Orientation
1/8 HS060LEA	6.0	Lengthwise
1/8 HS060CEA	6.0	Crosswise
1/8 HS114LEA	11.4	Lengthwise
1/8 HS114CEA	11.4	Crosswise
1/8 HS229LEB	22.9	Lengthwise
1/8 HS229CEB	22.9	Crosswise
1/4 HS060LQA	6.0	Lengthwise
1/4 HS060CQA	6.0	Crosswise
1/4 HS114LQA	11.4	Lengthwise
1/4 HS114CQA	11.4	Crosswise
1/4 HS229LQA	22.9	Lengthwise
1/4 HS229CQA	22.9	Crosswise

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.

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: 26-72VDC
Output: 3.3VDC, +/-5.1VDC,
10.4/8.6VDC(switchable)
13VDC
Efficiency: 87%
Size: 115 x 60 x 17 mm

Input: 26-72VDC
Output: 3.3VDC, +/-5.1VDC,
10.4/8.6VDC(switchable)
13VDC
Efficiency: 80%
Size: 106 x 58 x 15.4 mm

Input: 36-75VDC
Output: 12V/450W
Efficiency: 95.5%
Size: 58.1 x 37.1 x 15.3 mm

Input: 18-36VDC
Output: 56VDC/250W
Efficiency: 90%
Size: 206.5 x 129.4 x 21.7 mm

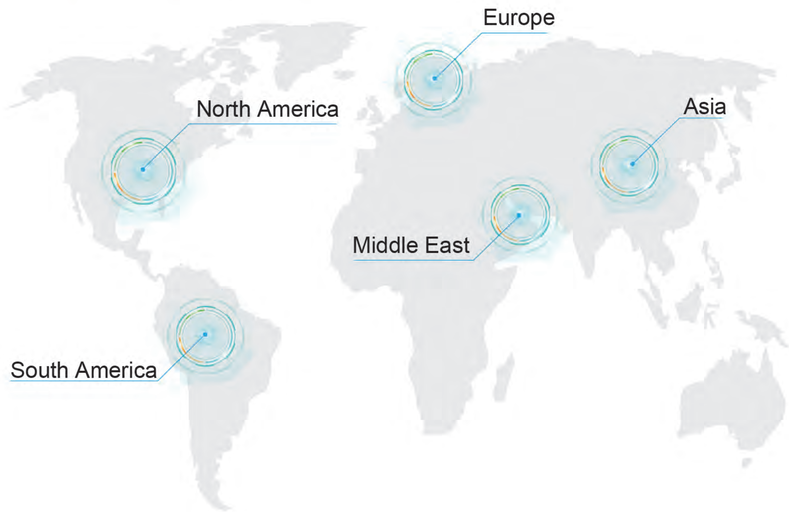
Input: 19-36VDC
Output: 56VDC/400W
Efficiency: 91%
Size: 230 x 145 x 45 mm

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 x 94.00 x 19.45 mm
Material: Aluminum
Surface: Black oxidation

NetPower Sales Channels