

180-650VDC Input Range

Input Voltage	Size	Series	Power	Efficiency	Output Voltage													
					5V	5.5V	7V	8.5V	9V	10V	10.5V	12V	28V	36V	48V			
180-400V	Full brick	FYVEA	800W	Up to 92%	90A								22A		17A			
			700W		90A		78A		57A		28A							
	Full brick	FYVEB	600W	Up to 92%					45A		22A							
	Half brick	HYVEA	400W		Up to 92%			40A		30A		14.5A		11A				
	Quarter brick	QYVEA	150W	Up to 90.5%		30A						13A		5A		3A		
Sixteenth brick	SYVEA	25W	Up to 80%	4A						2A								
300-500V	Full brick	FYVEC	800W	Up to 93%			78A						28A					
	Half brick	HYVEC	300W	Up to 91.5%	60A													
400-650V	Full brick	FYVGA	800W	Up to 92%									28A		22A		17A	
			700W								57A							
	Half brick	HYVGA	360W	Up to 90%							30A		12.5A					

32VDC Input (9-75V input range)

Size	Series	Power	Efficiency	Output Voltage					
				3.3V	5V	12V	15V	28V	
Quarter brick	QYPS5	150W	Up to 93%			10A		10A	
		100W				7A			
Sixteenth brick	SYRS5	36W	Up to 91%	8A*	6A*	3A*			

* To be released



Rugged COTS DC-DC Converters

Custom Solutions

In addition to offering wide variety of standard products, NetPower is experienced in design and manufacture of custom power supplies and systems.

- ▶ Design and manufacture semi-custom or full-custom power supplies
- ▶ Integrate power systems to meet specific requirements in a fast pace
- ▶ Design and manufacture mechanical parts

Engineering & Consultation

Besides product solutions, NetPower also offers engineering and consultation services, including:

- ▶ System on-board power supply design and consultation
- ▶ Evaluation of power architectures
- ▶ Review of power conversion related circuits and layout designs
- ▶ Power conversion product evaluation and comparison study

Manufacturing Service

To bring convenience to our customers, NetPower provides high quality manufacturing service in both China and USA:

- ▶ Prototype and volume PCB assembly & testing
- ▶ Full material sourcing capability
- ▶ ISO9001, ISO14001 and TS16949 certified manufacturing facility



Robust Products for High Reliability Application

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Features

- ▶ High efficiency using synchronous rectifiers
- ▶ 8:1, 4:1 and 2:1 Input voltage range
- ▶ Output power from 15W to 800W
- ▶ Remote sense, remote control, protection (over-voltage, over-current, and over temperature)
- ▶ Fixed frequency operation
- ▶ Operating temperature: -55°C ~+100°C
- ▶ Output Voltage Set Point: +/- 1%
- ▶ Designed to meet MIL-STDs

Mechanical

- ▶ Industry standard footprint
- ▶ Encapsulated for harsh environments
- ▶ Full Brick: 4.61" x 2.42"
- ▶ Half Brick: 2.52" x 2.40"
- ▶ Quarter Brick: 2.39" x 1.55"
- ▶ Eighth Brick: 2.40" x 0.99"
- ▶ Sixteenth Brick: 1.39" x 0.99"
- ▶ Thirty-second Brick: 1.03" x 0.85"
- ▶ Flanged baseplate available

18VDC Input (9-36V input range)

Size	Series	Power	Efficiency	Output Voltage									
				3.3V	5V	6V	8V	12V	15V	28V	48V	56V	
Half brick	HYPS1	280W	Up to 91%								8A*	6A*	
Quarter brick	QYPS1	150W	Up to 93%	30A	30A				12A		5A*	3A	2A
Eighth brick	EYRS1	140W	Up to 92%		25A*				10A	8A*	5A		
		100W			20A			5A	3A				
Sixteenth brick	SYRS1	60W	Up to 92%		12A		7A	5A	4A				
		45W			15A	8A	5A	4A	3A	2A			
Thirty-second brick	MYRS1	56W	Up to 88%		5A						2A		
		25W			7A	3A		3A	2A				

24VDC Input (18-36V input range)

Size	Series	Power	Efficiency	Output Voltage											
				3.3V	5V	6V	6.5V	8V	9V	12V	15V	24V	28V	48V	
Half brick	HYPS2	500W	Up to 93%					65A							
		450W						40A			17A	10A			
		400W			80A		50A			17A		7A			
Quarter brick	QYBC2	250W	Up to 91.5%		50A				25A						
Quarter brick	QYPS2	200W	Up to 92%	60A	40A	33A		25A	17A			7A	4A		
		150W			30A				7A						
Eighth brick	EYRS2	150W	Up to 92.5%		25A		19A		10A	10A		5A			
		100W			35A			15A				2A			
Sixteenth brick	SYRS2	90W	Up to 92%	25A	17A	12A		11A	7.5A	6A		3A	1.5A		
		50W			15A	12A	6A		8A	6A	3A	3A			
Thirty-second brick	MYRS2	45W	Up to 88%		8A	5A		5A			3A	1.5A			
		30W			10A		3A			3A					

* To be released

36VDC Input (18-75V input range)

Size	Series	Power	Efficiency	Output Voltage									
				3.3V	5V	8V	10V	12V	15V	28V	48V		
Half brick	HYPS3-W	360W	Up to 91%							30A			
Quarter brick	QYPS3-W	200W	Up to 93.5%	60A	40A					17A	13A		
		150W			25A		17A	11A		5A	2A		
Eighth brick	EYRS3-W	150W	Up to 92%							10A		5A	
		100W			35A	20A	15A		6A				
Sixteenth brick	SYRS3-W	60W	Up to 92%		12A	7A				5A	4A		
		50W			15A	8A	4A		3A				

48VDC Input (36-75V input range)

Size	Series	Power	Efficiency	Output Voltage											
				3.3V	5V	6V	6.5V	7V	8V	12V	15V	28V	48V		
Full brick	FYPS4	800W	Up to 93.5%											28A	
Half brick	HYPS4	500W	Up to 94%											18A	10A
		400W			80A		65A			30A					
		300W			80A										
Quarter brick	QYPS4	250W	Up to 93.5%							30A	30A				
		200W			55A	40A				17A	13A		2.5A		
Eighth brick	EYRS4	150W	Up to 93%									10A		5A	3A
		100W			30A	20A	16A				5A				
Sixteenth brick	SYRS4	100W	Up to 92.5%									8A			
		75W			25A	17A	12A					2.5A			
Thirty-second brick	MYRS4	40W	Up to 89.2%	10A	8A							3A	3A		