



Rugged COTS DC-DC Converters

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			
			300W		60A											
	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				

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

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



Robust Products for
High Reliability Application

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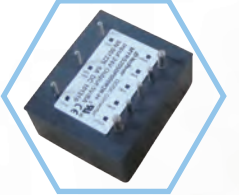
Features

- ▶ 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"x2.42"
- ▶ Half Brick: 2.52"x2.40"
- ▶ Quarter Brick: 2.39"x 1.55"
- ▶ Eighth Brick: 2.40"x0.99"
- ▶ Sixteenth Brick: 1.39"x0.99"
- ▶ Thirty-second Brick: 1.03"x0.85"
- ▶ 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	

