

 **PHASE**
TECHNOLOGIES


AMPRO ELECTRIC LTD.
ECRA / ESA 700918

PHASE
PERFECT®
7.5 HP to 100 HP

PHASEPERFECT®

Digital Phase Converter

240 V | Voltage Doubling™ | 480 V
(240 V 1ph to 480 V 3ph)

PT
SERIES
7.5 HP to 100 HP

PTE
SERIES
7.5 HP to 20 HP

**INTUITIVELY
ENGINEERED**



EFFICIENCY | QUALITY | COST SAVINGS

Increased Efficiency

- Now 98.7% efficient at full load
- Lower standby losses

The Best Power Quality

- Voltage balance within 2%

Less Noise

- Compared to rotary phase converters, the Phase Perfect® is 82% quieter

Improved Starting Capability

- **NEW! PERFECTStart™** - Proprietary control algorithm that prevents overcurrent tripping

Rugged & Reliable

- NEMA 1 indoor & NEMA 3R outdoor enclosures available

Higher Power Ratings

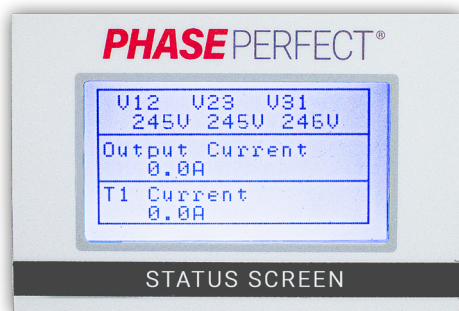
- 240 V models - now up to 75 HP
- 480 V Models - now up to 100 HP

PTE Features

- Compact Frame
- **NEW! - Voltage Doubling™**
- Best in-class value

Large Graphic Display

All Models



PHASE PERFECT®

Digital Phase Converter

The Phase Perfect® offers an affordable, reliable, and easy-to-install solution that will power one or multiple three-phase loads.

Our patented solid-state technology delivers power quietly, efficiently, and reliably to a wide variety of applications and equipment.

More Value

Expanding the product line to include the **PTE** and **PTE Voltage Doubling™** models reduces the cost, price point, and footprint for any phase conversion application up to 20 HP.

The Original
Phase Perfect®

PT
SERIES

Models Up To
100 HP

100 HP

Starts At
7.5 HP

7.5 HP

PT
SERIES

PTE
SERIES

Models Up To
20 HP

20 HP

Starts At
7.5 HP

PTE
SERIES

VOLTAGE
DOUBLING™

240 V 1ph to 480 V 3ph

Eliminate Additional
Transformer

PTE
SERIES

Models Up To
20 HP

20 HP

Starts At
7.5 HP

PTE
SERIES



American Made & Built to Last

PTE

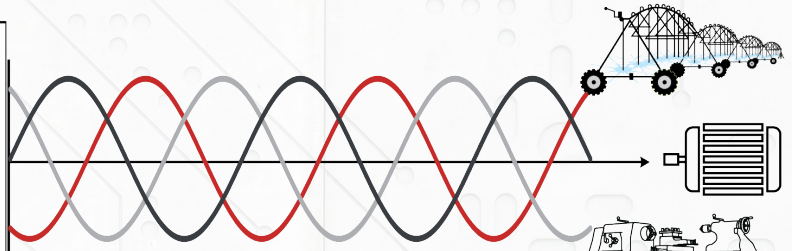
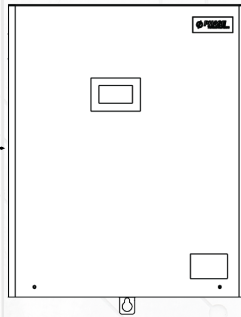
SERIES

7.5 HP to 20 HP

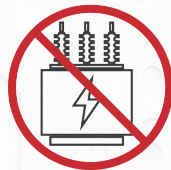
VOLTAGE DOUBLING™



INPUT
240VAC Single-Phase



OUTPUT
480VAC Three-Phase



Eliminate the transformer

PHASE PERFECT®

Digital Phase Converter



Yearly operating cost

Phase Perfect®

Idle & run cost **\$154.10**

Energy usage - standby power

87 Watts

Energy usage - running efficiency

98.7%

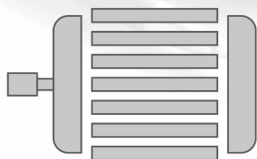
Phase Perfect® load capacity

20 HP | 64 Amps

Maintenance

None

Rotary Converter



Yearly operating cost

\$1,765.63

Energy usage - standby power

1420 Watts

Energy usage - running efficiency

87%

Equivalent rotary converter load capacity

40 HP | 64 Amps

Maintenance

**Replace start & run capacitors
every 1-3 years**

Lifetime Savings

PHASE PERFECT®

\$16,115.30

Assumptions:

A shop that is energized 12 hours/day, and running 10 hours/day under load, 250 days/year.

Average energy cost is \$0.1367 per kWh. Assumes 10 year product life.



	Part Number	Horsepower	Output kVA	Input Voltage Range	Output Voltage Range	Max Steady State Output	Max AC Input Current	Standby Power Consumption	NEMA 3R Dimensions (H x W x D)	NEMA 1 Dimensions (H x W x D)	Weight (lbs)
PTE SERIES 240 V	240 V Models - PTE Series 240 V 1PH to 240 V 3PH										
	PTE007R / PTE007RQT	7.5 HP	10.8 kVA	187 - 260 V	Equal To Input	26 A	45 A	70 W	25" x 23" x 8" 35" x 22" x 8"	---	51 lbs 60 lbs
	PTE010R / PTE010RQT	10 HP	14.9 kVA	187 - 260 V	Equal To Input	36 A	62 A	74 W	25" x 23" x 8" 35" x 22" x 8"	---	51 lbs 65 lbs
	PTE015R	15 HP	21.6 kVA	187 - 260 V	Equal To Input	52 A	90 A	77 W	35" x 22" x 8"	---	71 lbs
	PTE020R	20 HP	26.6 kVA	187 - 260 V	Equal To Input	64 A	111 A	80 W	35" x 22" x 8"	---	72 lbs
PT SERIES 240 V	240 V Models - Original Series 240 V 1PH to 240 V 3PH										
	PT007	7.5 HP	10.8 kVA	187 - 260 V	Equal To Input	26 A	45 A	70 W	38" x 25" x 20"	37" x 25" x 17"	102 lbs
	PT010	10 HP	14.9 kVA	187 - 260 V	Equal To Input	36 A	62 A	74 W	38" x 25" x 20"	37" x 25" x 17"	104 lbs
	PT020	20HP	26.6 kVA	187 - 260 V	Equal To Input	64 A	111 A	80 W	38" x 25" x 20"	37" x 25" x 17"	129 lbs
	PT030	30 HP	39.4 kVA	187 - 260 V	Equal To Input	95 A	165 A	175 W	35" x 21" x 19"	33" x 21" x 15"	222 lbs
	PT040	40 HP	54.0 kVA	187 - 260 V	Equal To Input	130 A	225 A	190 W	39" x 23" x 20"	36" x 23" x 16"	233 lbs
	PT050	50 HP	68.5 kVA	187 - 260 V	Equal To Input	165 A	286 A	235 A	46" x 26" x 20"	45" x 26" x 19"	251 lbs
	PT060	60 HP	78.9 kVA	187 - 260 V	Equal To Input	190 A	329 A	260 W	46" x 26" x 20"	45" x 26" x 19"	255 lbs
	PT075	75 HP	99.7 kVA	187 - 260 V	Equal To Input	240 A	416 A	300 W	46" x 26" x 20"	45" x 26" x 19"	288 lbs
PTE SERIES Voltage Doubling	Voltage Doubling™ Models - PTE Series 240 V 1PH to 480 V 3PH										
	PTE207RQT	7.5 HP	10.8 kVA	187 - 260 V	Approx. 2x input	13 A	45 A	200 W	35" x 22" x 8"	---	65 lbs
	PTE210RQT	10 HP	14.9 kVA	187 - 260 V	Approx. 2x input	18 A	62 A	320 W	35" x 22" x 8"	---	68 lbs
	PTE215RQT	15 HP	22.4 kVA	187 - 260 V	Approx. 2x input	27 A	94 A	435 W	35" x 22" x 9"	---	74 lbs
	PTE220RQT	20HP	26.6 kVA	187 - 260 V	Approx. 2x input	32 A	111 A	550 W	35" x 22" x 9"	---	80 lbs
PTE SERIES 480 V	480 V Models - PTE Series 480 V 1PH to 480 V 3PH										
	PTE407R	7.5 HP	10.8 kVA	440 - 520 V	Equal To Input	13 A	22 A	52 W	25" x 23" x 8"	---	56 lbs
	PTE410R	10 HP	14.9 kVA	440 - 520 V	Equal To Input	18 A	32 A	68 W	25" x 23" x 8"	---	56 lbs
	PTE415RQT	15 HP	22.4 kVA	440 - 520 V	Equal To Input	27 A	48 A	71 W	35" x 22" x 8"	---	70 lbs
	PTE420RQT	20 HP	26.6 kVA	440 - 520 V	Equal To Input	32 A	55 A	74 W	35" x 22" x 8"	---	72 lbs
PT SERIES 480 V	480 V Models - Original Series 480 V 1PH to 480 V 3PH										
	PT407	7.5 HP	10.8 kVA	440 - 520 V	Equal To Input	13 A	22 A	52 W	31" x 23" x 15"	31" x 17" x 15"	70 lbs
	PT410	10 HP	14.9 kVA	440 - 520 V	Equal To Input	18 A	32 A	68 W	31" x 23" x 15"	31" x 17" x 15"	74 lbs
	PT415	15 HP	22.4 kVA	440 - 520 V	Equal To Input	27 A	47 A	71 W	31" x 23" x 15"	31" x 17" x 15"	80 lbs
	PT420	20 HP	26.6 kVA	440 - 520 V	Equal To Input	32 A	55 A	74 W	31" x 23" x 15"	31" x 17" x 15"	80 lbs
	PT430	30 HP	38.2 kVA	440 - 520 V	Equal To Input	46 A	80 A	87 W	38" x 25" x 20"	37" x 25" x 17"	141 lbs
	PT440	40 HP	50.7 kVA	440 - 520 V	Equal To Input	61 A	105 A	180 W	46" x 26" x 20"	45" x 26" x 17"	242 lbs
	PT450	50 HP	64.0 kVA	440 - 520 V	Equal To Input	77 A	134 A	190 W	46" x 26" x 20"	45" x 26" x 17"	246 lbs
	PT460	60 HP	75.6 kVA	440 - 520 V	Equal To Input	91 A	157 A	220 W	46" x 26" x 20"	45" x 26" x 17"	256 lbs
	PT475	75 HP	88.9 kVA	440 - 520 V	Equal To Input	107 A	185 A	270 W	46" x 26" x 20"	45" x 26" x 17"	268 lbs
	PT4100	100 HP	118.0 kVA	440 - 520 V	Equal To Input	142 A	246 A	300 W	46" x 26" x 20"	45" x 26" x 17"	305 lbs

Audible Levels: **PT SERIES: 75 dBA** **PTE SERIES: 80 dBA** **PTE SERIES - QT (quiet) models: 75 dBA**

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