

PHASEPERFECT®

Digital Phase Converter

230 V | Voltage Doubling™ | 460 V
(230 V 1PH to 460 V 3 PH)

PT SERIES

7.5 HP to 175 HP

PTE SERIES

7.5 HP to 20 HP

PTS SERIES

3 HP to 7.5 HP

**INTUITIVELY
ENGINEERED**



EFFICIENCY | QUALITY | COST SAVINGS

PHASE PERFECT®

Digital Phase Converter

The Phase Perfect® offers **Uncommon Value** in phase conversion technology. Power single or multiple loads quietly, efficiently, and reliably. The Phase Perfect® excels where other technologies fail and will work with any variety of applications and equipment.

Increased Efficiency

- Now 97% efficient at full load
- Lower standby losses

The Best Power Quality

- Voltage balance within 2%

Less Noise

- Quieter than a rotary phase converter

Rugged & Reliable

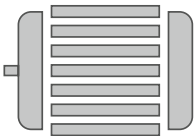
- NEMA 1 indoor & NEMA 3R outdoor enclosures available

PHASE PERFECT®

Digital Phase Converter



Rotary Converter



Yearly operating cost

Idle cost **\$89.69**

Energy usage - standby power

80 Watts

Energy usage - running efficiency

98.7%

Phase Perfect® load capacity

10 HP | 36 Amps

Maintenance

None

Yearly operating cost

\$1,513.51

Energy usage - standby power

1350 Watts

Energy usage - running efficiency

87%

Equivalent rotary converter load capacity

20 HP | 36 Amps

Maintenance

Replace start & run capacitors every 1-3 years

Phase Perfect®
Yearly Energy Savings

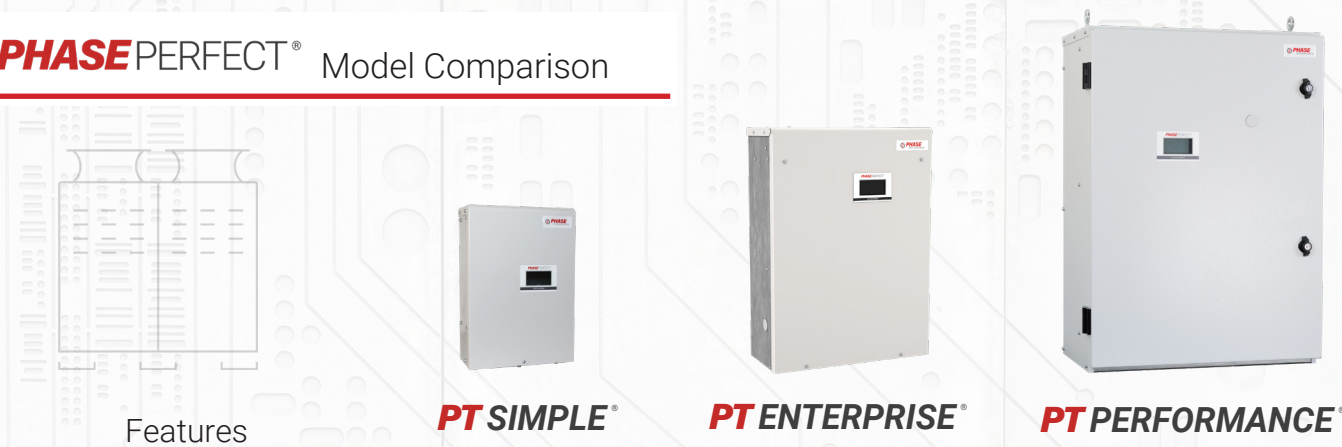
\$1,432.82

*Results are based on an elevator type application with 22 hours idle/non-operating time per day, with the elevator ready for operation 24/7, at an electric rate of \$0.14 per kw/hr.



American Made & Built to Last

PHASE PERFECT® Model Comparison

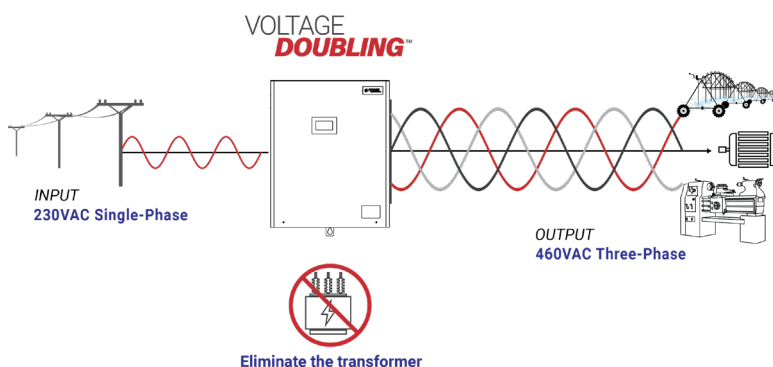


| Features | PT SIMPLE® | PT ENTERPRISE® | PT PERFORMANCE® |
|----------------------------------|------------------|------------------|------------------|
| Solid-State Phase Conversion | ✓ | ✓ | ✓ |
| Robust Load Protection | ✓ | ✓ | ✓ |
| Enclosure Rating | NEMA 1 / NEMA 3R | NEMA 1 / NEMA 3R | NEMA 1 / NEMA 3R |
| Utility-Grade Three Phase Output | ✓ | ✓ | ✓ |
| Multiple Load Capability | ✓ ¹ | ✓ | ✓ |
| Regenerative Load Capability | ✗ | ✓ | ✓ |
| Temp Rating | 40° C (104° F) | 40° C (104° F) | 50° C (122° F) |
| Voltage-Doubling | ✗ | ✓ | ✗ |
| Ducted Cooling | ✗ | ✗ | ✓ |
| 508A Panel Shop Customization | ✗ | ✗ | ✓ |

¹ May derate output voltage during harder starting loads to reduce peak starting current.

UNCOMMON VALUE

PTE
SERIES



Build and Quote at www.phasetechnologies.com



| | Part Number | Horsepower | Output kVA | Input Voltage Range | Output Voltage Range | Max Steady State Output | Max AC Input | Standby Power Consumption | NEMA 3R Dimensions (H x W x D) | NEMA 1 Dimensions (H x W x D) |
|------------|---|---------------------|------------|---------------------|----------------------|-------------------------|--------------|---------------------------|---|-------------------------------|
| PTS SERIES | 230 V Models - PT Simple 230 V 1PH to 230 V 3PH | | | | | | | | ¹ Max starting capacity of 5 HP depending on application | |
| | PTS003 | 3 HP | 4.5 kVA | 187 - 260 V | Equal To Input | 11 A | 19 A | 60 W | 18" x 12" x 6" | 18" x 12" x 11" |
| | PTS005 | 5 HP | 7.4 kVA | 187 - 260 V | Equal To Input | 18 A | 31 A | 60 W | 18" x 12" x 6" | 18" x 12" x 11" |
| | PTS007 | 7.5 HP ¹ | 10.8 kVA | 187 - 260 V | Equal To Input | 26 A | 45 A | 70 W | 18" x 12" x 7" | 18" x 12" x 12" |
| | 460 V Models - PT Simple 460V 1PH to 460 V 3PH | | | | | | | | | |
| | PTS405 | 5 HP | 8.3 kVA | 440 - 520 V | Equal To Input | 10 A | 18 A | 48 W | 18" x 15" x 7" | 19" x 15" x 12" |
| | PTS407 | 7.5 HP | 10.8 kVA | 440 - 520 V | Equal To Input | 13 A | 22 A | 52 W | 18" x 15" x 7" | 19" x 15" x 12" |
| PTE SERIES | 230 V Models - PT Enterprise 230 V 1PH to 230 V 3PH | | | | | | | | | |
| | PTE007 | 7.5 HP | 10.8 kVA | 187 - 260 V | Equal To Input | 26 A | 45 A | 70 W | 26" x 17" x 8" | 26" x 19" x 12" |
| | PTE010 | 10 HP | 14.9 kVA | 187 - 260 V | Equal To Input | 36 A | 62 A | 74 W | 26" x 17" x 8" | 26" x 19" x 12" |
| | PTE015 | 15 HP | 21.6 kVA | 187 - 260 V | Equal To Input | 52 A | 90 A | 77 W | 28" x 17" x 9" | 30" x 20" x 16" |
| | PTE020 | 20 HP | 26.6 kVA | 187 - 260 V | Equal To Input | 64 A | 111 A | 80 W | 28" x 17" x 9" | 30" x 20" x 16" |
| | 460 V Models - PT Enterprise 230 V 1 PH to 460 V 3PH | | | | | | | | | |
| | PTE207 | 7.5 HP | 10.8 kVA | 187 - 260 V | Approx. 2x input | 13 A | 45 A | 200 W | 34" x 18" x 9" | 35" x 20" x 14" |
| | PTE210 | 10 HP | 14.9 kVA | 187 - 260 V | Approx. 2x input | 18 A | 62 A | 320 W | 34" x 18" x 9" | 35" x 20" x 14" |
| | PTE215 | 15 HP | 22.4 kVA | 187 - 260 V | Approx. 2x input | 27 A | 94 A | 435 W | 34" x 18" x 9" | 35" x 20" x 14" |
| | PTE220 | 20HP | 26.6 kVA | 187 - 260 V | Approx. 2x input | 32 A | 111 A | 550 W | 34" x 18" x 9" | 35" x 20" x 14" |
| | 460 V Models - PT Enterprise 460 V 1PH to 460 V 3PH | | | | | | | | | |
| | PTE407 | 7.5 HP | 10.8 kVA | 440 - 520 V | Equal To Input | 13 A | 22 A | 52 W | 28" x 17" x 9" | 30" x 20" x 16" |
| | PTE410 | 10 HP | 14.9 kVA | 440 - 520 V | Equal To Input | 18 A | 32 A | 68 W | 28" x 17" x 9" | 30" x 20" x 16" |
| | PTE415 | 15 HP | 22.4 kVA | 440 - 520 V | Equal To Input | 27 A | 48 A | 71 W | 28" x 17" x 9" | 30" x 20" x 16" |
| | PTE420 | 20 HP | 26.6 kVA | 440 - 520 V | Equal To Input | 32 A | 55 A | 74 W | 28" x 17" x 9" | 30" x 20" x 16" |
| PT SERIES | 230 V Models - PT Performance 230 V 1PH to 230 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" |
| | 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" |
| | 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" |
| | 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" |
| | 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" |
| | 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" |
| | 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" |
| | 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" |
| | 460 V Models - PT 460 V 1PH to 460 V 3PH | | | | | | | | | |
| | PT407R | 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" |
| | PT410R | 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" |
| | PT415R | 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" |
| | PT420R | 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" |
| | PT430R | 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" |
| | PT440R | 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" |
| | PT450R | 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" |
| | PT460R | 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" |
| | PT475R | 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" |
| | PT4100R | 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" |
| | PT4150R | 150 HP | 164.4 kVA | 440 - 520 V | Equal To Input | 198 A | 343 A | 300 W | 46" x 26" x 20" | 45" x 26" x 17" |
| | PT4175R | 175 HP | 182.9 kVA | 440 - 520 V | Equal To Input | 220 A | 381 A | 300 W | 46" x 26" x 20" | 45" x 26" x 17" |