

PACKAGING SOLUTIONS

HVAC Packages

TECO-Westinghouse offers a complete line of packaged inverters, including bypass packages for fan and pump applications.

Features

- Packages up to 1000 HP available
- Available in multiple disconnect options
- Two or three contactor and soft start bypass
- Wide range of harmonic filters available to meet IEEE 519-1992
- NEMA 1, NEMA 12, NEMA 3R standard options
- NEMA 4 & 4X available (custom order)
- Duplex - multiplex packages available
- Packages designed to customer specifications



Typical Applications

- Fans
- Chillers
- Refrigeration
- Compressors
- Air handlers
- Pumps

Industrial Packages

TECO-Westinghouse also offers packaged inverters to suit robust industrial applications.

Features

- Packages up to 1000 HP
- Available in multiple disconnect options
- NEMA 1, NEMA 12, NEMA 3R standard options
- NEMA 4 & 4X available (custom order)
- Special designs to meet tight spacing requirements

Typical Applications

- Conveyors
- Compressors
- Mixers
- Stamping/ punch presses



TECO Westinghouse

The TECO-Westinghouse TEAMMaster™ Heavy Duty Solid State Starter is the perfect match for your MAX-HT™ motor. Together they make a great package to control start-up and operation of the toughest crusher applications. Our reliable solid state starters are available in low and medium voltages and are equipped with an internal across-the-line bypass for no downtime peace of mind. With a flip of the emergency bypass switch, your process keeps running until your soft start is back online.



Motor & Inverter Packages

Additional discounts available when purchasing a matching motor and inverter as a set.

Features

- Premium efficient motor and inverter combination packages
- Packages developed for both constant or variable torque applications
- Motors – 900 through 3600RPM; 230, 460V
 - Rolled Steel and Cast Iron ODP: 143T through 5009B
 - Max-E1® type AEHE, AEHH8N through 800 HP
- Inverters – 230VAC: 1-125 HP; 460VAC: 1-800 HP
 - EQ7 or A510 inverters for constant torque applications
 - EQ7 or F510 inverters for variable torque applications
- 5 year warranty valid on all combination packages



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INVERTERS SELECTION GUIDE



TECO Westinghouse



Power Range: .25-3 HP
Enclosure: IP20

L510 Advanced Micro AC Inverter



HP (CT)	Input Voltage
.25-1	110V 1Φ
.25-3	230V 1Φ
.5-3	230V 3Φ
1-3	460V 3Φ

Typical Applications:
Conveyors, AC Contactor Replacements, Mixers, Treadmills

Power Range: .5-25 HP
Enclosure: IP66/NEMA 4, 4X

E510 NEMA 4/ 12 AC Inverter



HP (CT)	Input Voltage
.5-3	230V 1Φ
.5-20	230V 3Φ
1-25	460V 3Φ

Typical Applications:
Food Processing, Material Handling, Dirty Environment Applications

Power Range: .5-75 HP
Enclosure: IP20/ NEMA 1

E510 NEMA 1 Compact AC Inverter



HP (CT)	Input Voltage
.5-3	230V 1Φ
.5-40	230V 3Φ
1-75	460V 3Φ

Typical Applications:
Conveyors, Compressors, Centrifugal Applications

Power Range: 1-400 HP
Enclosure: SEE BELOW

A510 Heavy Duty AC Inverter



HP (CT, VT)	Input Voltage	Enclosure
1-100	230V 3Φ	NEMA 1 (1-40 HP)
1-125		IP20 (50-100 HP)
1-425	460V 3Φ	NEMA 1 (1-75 HP)
1-425		IP20 (100-425 HP)
1-10	575/600V 3Φ	NEMA 1
1-10		
15-250	690V 3Φ	NEMA 1 (1-60 HP)
15-270		IP20 (75-270 HP)

Typical Applications:
Crushers, Extrusion, Machine Tooling, Compressors

Power Range: 1-800 HP
Enclosure: SEE BELOW

F510 Fan & Pump AC Inverter



HP (VT)	Input Voltage	Enclosure
1-150	230V 3Φ	NEMA 1 (1-50 HP)
		IP20 (60-150 HP)
1-800	460V 3Φ	NEMA 1 (1-75 HP)
		IP20 (100-800 HP)

Typical Applications:
Blowers, Irrigation, Wastewater

Control Type	V/Hz	V/Hz	V/Hz	V/Hz	V/Hz
Sensorless Vector	Sensorless Vector (SLV)	Sensorless Vector (SLV)	Sensorless Vector (SLV)	Sensorless Vector (SLV)	Sensorless Vector (SLV), Sensorless Vector 2 (SLV2)
Closed Loop Vector	—	—	—	—	V/Hz+PG, Sensor Vector (SV)
PM Motor Control	—	—	—	—	—
Speed Range	0-599 Hz	0-599 Hz	0-599 Hz	0-599 Hz	0-400 Hz
CT Overload Rating	150% 1 Minute Overload	150% 1 Minute Overload	150% 1 Minute Overload	150% 1 Minute Overload	120% 1 Minute Overload
Drive Display	LED Keypad	LED Keypad	LED Keypad	LED Keypad	LCD Keypad
Manual Speed Potentiometer	Built-In Speed Potentiometer	Built-In on select models	Built-In Speed Potentiometer	Custom Value Scaling	—
Custom Display Setting	Custom Value Scaling	Custom Value Scaling	Custom Value Scaling	Custom Value Scaling	Custom Value Scaling
DB Transistor	Built-In on 460V Only	Built-In	Built-In up to 30 HP (230V) and 40 HP (460V)	YES (up to 25 HP@230V, to 40 HP@460V, 575V all models, up to 40 HP@690V)	Built-In up to 30 HP (230V) and 40 HP (460V)
Preset Speeds	8 Preset Speeds	16 Preset Speeds	16 Preset Speeds	16 Preset Speeds	16 Preset Speeds
EMC Filter	Optional Filter	Built-In on select models	Optional Filter	Optional Filter	Optional Filter
Auto Restart	Auto Restart	Auto Restart	Auto Restart	Auto Restart	Auto Restart
Auto Tune	Static Tuning	Static Tuning	Static or Dynamic Tuning	Static or Dynamic Tuning	Static or Dynamic Tuning
Plenum Rated	—	—	Plenum Rated	Plenum Rated	Plenum Rated
Application Presets	—	—	—	Pump, Conveyor, Exhaust Fan, HVAC, Compressor, Hoist, Crane	Pump, Exhaust Fan, HVAC, Compressor
Digital Inputs	5 DI	6 DI	6 DI	8 DI	6 DI
Digital Outputs	1 DO (Form A)	2 DO (1 Form C / 1 Form A)	2 DO (1 Form C / 1 Form A)	Frame 1 - Form C / 2 TTL; Frames 2-7, Form C &A/ 1 TTL	3 DO (1 Form C / 2 Form A)
Analog Inputs	2 AI (0-10VDC/ 4-20mA)	2 AI (0-10VDC/ 4-20mA)	2 AI (0-10VDC/ 4-20mA)	2 AI (0-10VDC/ 4-20mA)	2 AI (0-10VDC/ 4-20mA)
Analog Outputs	1 AO (0-10VDC)	1 AO (0-10VDC)	1 AO (0-10VDC)	2 AO (0-10VDC/ 4-20mA)	2 AO (0-10VDC/ 4-20mA)
Output disable stop	BaseBlock	BaseBlock	BaseBlock	BaseBlock	BaseBlock
Pulse Train Input	—	1 PI	1 PI	1 PI	1 PI
Pulse Train Output	—	—	—	1 PO	1 PO
RS485 Input	Built-In via RJ45	Built-In via RJ45	Built-In via RJ45 or Terminal	Built-In via RJ45 or Terminal	Built-In via RJ45 or Terminal
Run Permissive	—	Run Permissive Input	Run Permissive Input	Run Permissive Input	Run Permissive Input
PID	PID	PID	PID	PID	PID
Sleep/ Wake	Sleep/ Wake	Sleep/ Wake	Sleep/ Wake	Sleep/ Wake	Sleep/ Wake
Fire Mode	—	Fire Mode	Fire Mode	Fire Mode	Fire Mode
PLC Function	—	Simple PLC	Simple PLC	Simple PLC	Simple PLC
Auto Cycle Process	Auto Cycle	Auto Cycle	Auto Cycle	Auto Cycle	Auto Cycle
DC Injection Braking	DC Injection Braking	DC Injection Braking	DC Injection Braking	DC Injection Braking	DC Injection Braking
Master - Follower	—	—	—	—	Master - Follower
Programming Software	Link Software	Link Software	Link Software	Link Software	Link Software
Copy Function	Copy Function Via Copy Module	Copy Function Via Copy Module	Copy Function Via Copy Module or LCD Optional Keypad	Copy Function as Standard	Copy Function as Standard
Modbus RTU	Modbus RTU as Standard	Modbus RTU as Standard	Modbus RTU as Standard	Modbus RTU as Standard	Modbus RTU as Standard
Profibus	Profibus Via Optional Gateway	Profibus Via Optional Gateway	Profibus Via Optional Gateway	Profibus Via Optional Gateway	Profibus Via Optional Gateway
EtherNet/IP	EtherNet/IP Via Optional Gateway	EtherNet/IP Via Optional Gateway	EtherNet/IP Optional	EtherNet/IP Via Optional Gateway	EtherNet/IP Via Optional Gateway
BACnet MS/TP	BACnet MS/TP as Standard	—	BACnet MS/TP as Standard	—	BACnet MS/TP as Standard
Encoder Feedback Kit	—	—	—	Encoder Feedback Kit Via Optional Line Driver, Open Collector, Synchronous Line Driver	—
Metasys N2	—	—	—	—	Metasys N2 as Standard
DeviceNet	DeviceNet Via Optional Gateway	DeviceNet Via Optional Gateway	DeviceNet Optional	DeviceNet Via Optional Gateway	DeviceNet Via Optional Gateway