

Distributor/Dealer Catalog 2014

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Every WINCO and WINPOWER product is built in Le Center, Minnesota. From start to finish every generator comes off the production line meeting the highest quality and finish standards. Our factory personnel have years of experience that contribute to our superior quality. Every generator that we sell, whether a two-bearing or a large diesel set is 100% load tested.

At WINCO and WINPOWER we believe you deserve the best products at the best value while benefiting from great customer service. Our knowledgeable sales staff will assist you with product selection to ensure you get the best product for your application. The WINCO service department is able to assist with models in current production as well as older models. WINCO has authorized service centers across America to ensure localized care for end users.



There's Power in Quality



HOME POWER®

WINCO Tri-Fuel and Bi-Fuel generators are key to enjoying a weekend at the cabin or to prepare for power outages. Since the WINCO Home Power generators run on gasoline, LP gas and natural gas, they will help keep your family safe, warm and dry no matter which fuel you have available.

MODEL	HPS6000HE*	HPS9000VE	HPS12000HE
Electrical Specifications			
Max Rating (1)	6000 watts	9000 watts	12000 watts
Cont. Rating Gasoline	5500 watts	8000 watts	10800 watts
Cont. Rating LP	Not Available	7200 watts	9720 watts
Cont. Rating NG	4400 watts	6400 watts	8640 watts
Output (V)	120/240	120/240	120/240
Cont. Amps Gasoline	45.8/22.9	66.7/33.3	90/45
Motor Starting (1)(2)	2 hp	4 hp	5 hp
Engine Data			
Make/Model	Honda GX340	B&S Vanguard	Honda GX630
Displacement/Type	337 cc/OHV	480 cc/OHV	630 cc/OHV
Starting System (3)	Electric/Recoil	Electric/Recoil	Electric
Fuel Tank Capacity	7 gal	7 gal	15 gal
Low Oil Protection	Standard	Standard	Standard
dBa Rating @ 7 Meters	72	77	78
Fuel Consumptions			
Gasoline	1.0 gal/hr	1.3 gal/hr	1.67 gal/hr
LP Vapor	Not Available	1.9 gal/hr	2.2 gal/hr
Natural Gas	160 ft³/hr	180 ft³/hr	200 ft³/hr
Receptacles			
120V NEMA 5-20R	2-20 amp	4-20 amp	4-20 amp
120/240V Twist-Lock NEMA L14-30R	1-30 amp	1-30 amp	1-30 amp
120/240V Straight Blade NEMA 14-60R	-	-	1-60 amp
General Information			
Dimensions (LxWxH)	32.75"x22.5"x22"	32.75"x22.5"x22"	44.7"x36"x33"
Shipping Weight	224 lbs	267 lbs	425 lbs
EPA/CARB	Yes/No	Yes/No	Yes/No
Engine/Generator Warranty (4)	3 yrs/2 yrs	3 yrs/2 yrs	3 yrs/2 yrs

Notes: (1) Based on gasoline fuel. Derate 10% for LP Gas and 20% for NG. (2) Code G capacitor start motor. (3) Battery not included. See individual spec sheets for battery requirements (4) Prime Power Warranty-120 days. Engine warranty administered by engine manufacturer. Contact your local B&S or Honda service center for warranty assistance. WINCO Inc. can assist in locating appropriate engine warranty support. *HPS6000HE is not certified for LP use.

NOTE: Two-wheel dolly kits available for HPS6000HE and HPS9000VE. The HPS12000HE comes standard with 4-wheel dolly kit.



Also available as a packaged kit which includes the generator, generator cover, battery charger, low pressure fuel solenoid, manual transfer switch, and dolly kit.



INDUSTRIAL GENERATORS

WINCO's industrial line sets itself apart by using the best components along with the best manufacturing processes. Each generator is inspected and tested at 100% load. WINCO engineers pay attention to a lot more than the obvious parts. Each generator end, steel part, paint spec, circuit breaker and receptacle is carefully selected and tested to provide the maximum life and best reliability. The most demanding industries depend on WINCO generators because they are the most durable while providing exceptionally clean and reliable power.

Standard Features and Benefits

Generators

- 100% copper windings
- High motor starting capabilities
- High temperature insulation materials
- Waterproof, maintenance free bearings
- Voltage regulation is +/-5%
- Service parts are widely available from multiple vendors

Engines

- Honda, Yanmar, and B&S Vanguard engines.
- 3 year commercial warranty (2 yrs Yanmar, 1 yr Honda GC)
- Fuel efficient
- Low oil shutdown
- Muffler and engine designs reduce noise
- Carb/EPA approved
- Cast iron sleeves

Other Features

- Large, corrosion resistant 7 or 15 gallon fuel tanks with fuel level gauges provide long run times for full work days
- Square D circuit breakers
 - 1/60th second reaction time
 - Florescent red Visi-Trip indicator
- Standard lifting bars (Excluding WT3000H)
- Rubber isolation mounts
- Powder coat paint
- Generous receptacle packages
- Dolly kits, covers, and other accessories are available



The **W3000H** is designed to provide mobile power in a small and light weight package.

- 68 lbs
- Easy to carry handle design
- Large rubber feet for stability
- 100% load tested, no statistical sampling





Switchless Full Power

Most portable generators use switches to achieve full 120V power from one receptacle. These switches fail over time and disable all 240V output from the machine. WINCO's answer to these problems is Switchless Full Power. This is standard in the WC5000H, W6010DE, WC6000H, and WC6000HE. Extra copper in the stator windings enables the operator to obtain full 120V, full 240V or a combination of both (up to the nameplate rating) without any switches. Switchless Full Power models include a 50 amp (NEMA 5-50R) receptacle to distribute the machine's maximum 120V capacity from a single point.

Conserv-R (Automatic Idle Control)

WINCO generators equipped with a Conserv-R idle down when there is no load on the generator. The lower speeds reduce noise and engine wear while improving fuel economy. As soon as the generator detects demand, the engine returns to normal operating speed. This feature is easily enabled by selecting the switch on the control panel.

	W3000H	WT3000H	WC5000H	WC6000H	WC10000VE	WL12000HE	WL18000VE	W6010DE
Electrical Data				WC6000HE	Big Dog	Big Dog	Big Dog	***Diesel***
Max Watts	3000	3000	5000	6000	10500	12000	18000	6000
Cont. Watts	2400	2500	4500	5500	9600	10800	15000	5500
Output (V)	120	120	120/240	120/240	120/240	120/240	120/240	120/240
Cont. Amps	20	20.8	37.5/18.75	45.8/22.9	80/40	90/45	125/62.5	45.8/22.9
Motor Starting ⁽¹⁾	.75 hp	1 hp	1.5 hp	3 hp	5 hp ⁽⁵⁾	5 hp ⁽⁵⁾	6 hp ⁽⁵⁾	3 hp
120V Full Power ⁽²⁾	-	-	37.5	45.8	-	-	-	45.8
Generator Type	Brushless			Brush	Brushless			
Engine Data	Honda(GC)	Honda GX			B&S (OHV)	Honda GX	B&S (OHV)	Yanmar
Model	GC160	GX160	GX270	GX340	Vanguard	GX630	Vanguard	L100V
Displacement	160 cc	160 cc	270 cc	389 cc	570 cc	688 cc	895 cc	435 cc
Conserv-R	-	-	Standard	Standard	Standard	-	-	-
Low Oil Shutdown	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Starting System ⁽³⁾	Recoil Only			Recoil/Electric		Electric Only		Electric
Fuel Tank (gal)	2 qt	1	7	7	7	15	15	7
Running Time								
Full Load	1.26	1.35 hrs	9.46 hrs	7.32 hrs	4.3 hrs	6.49 hrs	7 hrs	12.2 hrs
Half Load	1.5 hrs	3.5 hrs-	16.3 hrs	13 hrs	7 hrs	14.4 hrs	11.2 hrs	19.5 hrs
Hour Meter	-	-	Standard	Standard	Standard	Standard	Standard	Standard
120 Volt Receptacles ⁽⁶⁾								
NEMA 5-20	2-20A	2-20A	4-20A GFCI			6-20A GFCI		2-20A GFCI
NEMA L5-20	-	-	1-20A GFCI			-	1-20A GFCI	-
NEMA 5-50	-	-	1-50A			-	-	1-50A
240 Volt Receptacles								
NEMA L6-30	-	-	-	-	1-30A GFCI		1-30A	1-30A GFCI
120/240 Volt Receptacles								
NEMA 14-30	-	-	1-30A GFCI			-	-	1-30A GFCI
NEMA 14-60	-	-	-	-	1-60A			-
Additional Information								
Dimensions (in) w/o dolly kit	21.4x14.5x16.5	24x17.5x18	32.7x22.9x22.1		33.7x28x22.1	40x27.2x26.7		33.5x23x23
Weight (lbs)	68	96	226	260/271	251	425	416	292
Warranty (Eng/Gen) ⁽⁴⁾	1 yr	3 yrs/2 yrs						2 yrs/2 yrs
CARB	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
dBa @ 7 Meters	72	74	74.3	77	78	77	79	78

Notes: (1) Code G capacitor start motor. (2) Available 120 volt current at the 50 amp full power plug. (3) Electric start models include battery rack and cables. Battery not included, see individual spec sheets for battery requirements. (4) Engine warranty administered through engine manufacturer. (5) 240V only. (6) Specifications and receptacles are subject to change without notice.

DYNA

PORTABLE GENERATORS

WINCO's DYNA consumer portable generators are perfect for the cabin, projects around the house or to keep your well and sump pump going during an outage. At WINCO we believe in building the best products available, and as a result, our DYNA portables outlast many competitors' "industrial" models.

	DL5000H	DL6000H DL6000HE	DL6000I
Electrical Data			
Max Watts	5000	6000	6000
Cont. Watts	4500	5500	5500
Output (V)	120/240	120/240	120/240
Cont. Amps	37.4/18.7	45/22.5	45/22.5
Motor Starting ⁽¹⁾	1.5 hp	1.5 hp	2 hp
Engine Data			
	Honda (Commercial)		B&S Intek
Model	GX270	GX340	B&S Intek
Displacement	270 cc	389 cc	342 cc
Low Oil Shutdown	Standard	Standard	Standard
Starting System ⁽²⁾	Recoil Only	Recoil Recoil/Elec	Recoil Only
Fuel Tank	7 gal	7 gal	4.5 gal
Running Time			
Full Load	10.2 hrs	7.32 hrs	5.3 hrs
Half Load	16 hrs	9.9 hrs	8.5 hrs
120 Volt Receptacles			
NEMA 5-20	2-20A	4-20A	2-20A
120/240 Volt Receptacles			
NEMA 14-30		1-30A	
Additional Information			
Dimensions (in) ⁽⁴⁾	33x22x22	33x22x22	26x18x21
Weight (lbs)	193	235/246	158
Warranty (Eng/Gen) ⁽³⁾		3/2 yr	2/2 yr
CARB	Yes	Yes	No
CSA	-	Yes	-
dBa @ 7 Meters	79.5	78.5	72

Notes: (1) Code G capacitor start motor. (2) Electric start models include battery rack and cables. Battery not included, see individual spec sheets for battery requirements. (3) Engine warranty administered through engine manufacturer. (4) Approximate dimensions only.

Features and Benefits

- Premium Honda and B&S engines
- 100% copper windings
- Sturdy wrap-around welded tubular cradles
- Durable, long lasting powder coat paint
- Corrosive resistant fuel tanks
- Light compact designs



PORTABLE GENERATOR ACCESSORIES

Two-Wheel Industrial Dolly Kit-4.5-10 kw (32 lbs):

The 10" diameter no-flat tires get you through mud, snow, sand and soggy lawns. Durable grip handle assures easy maneuverability.



Four-Wheel Industrial Dolly Kit-12-18 kW (45 lbs):

The 10" diameter no-flat tires get you through mud, snow, sand and soggy lawns. Fold-down handles assure easy maneuverability. The HPS12000HE comes standard with this dolly kit.



Small Generator Cover-4.5-9kw:

This durable tailored cover is made of heavy canvas to protect your WINCO portable generator in all weather conditions. During storage or transportation, the customer generator cover protects your portable generator from moisture, dust, nicks and scratches. A built-in band keeps the cover in place.



Large Generator Cover-10-18kw (5 lbs):

Same features as the small generator cover.

Plug-In Line Voltage Monitor (1 lb):

This compact voltmeter can be plugged into any 15 or 20 amp 120V straight blade receptacle to verify output voltage.

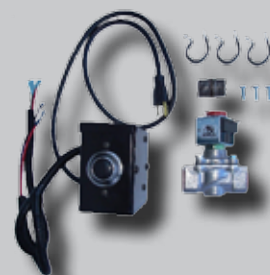
50 amp (CS6365C) Twist-Lock Plug #64493 (2 lbs)

30 amp (NEMA L14-30P) Locking Plug #64492 (1 lb)

60 amp (NEMA 14-60P) Plug #300137 (1 lb)

Low Pressure Fuel Solenoid Kit (4 lbs):

Tri-Fuel or Bi-Fuel generators that will be run unattended or permanently connected to a fuel source must have an electric fuel solenoid installed in the fuel line close to the generator. This solenoid is a positive flow shut-off valve which protects the demand regulator from wear that may result in dangerous or costly leaks.



WINCO Emergency Transfer/Service Kits:

The ET/S system allows your portable generator to be quickly and safely connected to a building electrical panel for backup service during a power outage. An outdoor enclosure stores the 12' power cord with the 30 or 60 amp plug when it is not in use. A quality square D circuit breaker load center with interlocked generator and utility main breakers prevent feedback and installs next to the building's electrical service panel. Four 120V (8 tandem), two 240V branch circuits or combination of both can be connected for emergency use. Switches are not UL listed.



PACKAGED STANDBY SYSTEMS



RESIDENTIAL



COMMERCIAL

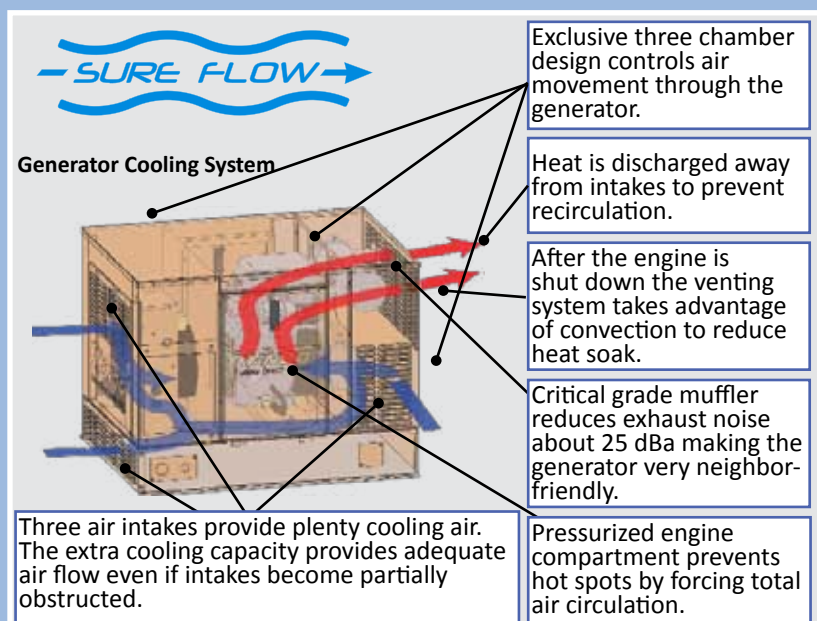


INDUSTRIAL

AIR COOLED



WINCO Air-Cooled PSS units are built rugged to ensure the highest performance over the life of our units. Commercial grade Honda and Briggs & Stratton V-Twin engines, 100% copper windings in our generator ends, Square D mainline circuit breakers, and powder coat paint are the items that initially draw people to these units. One of the most important features is the Sure Flow housing design. Air-Cooled PSS units are backed by a 1 year/1000 hours factory warranty.



Engine Specifications

	PSS8B	PSS12H	PSS20B
Make	B&S	Honda	B&S
Model	Vanguard	GX690	Vanguard
Displacement	570 cc	688 cc	993 cc
Cylinders	V-Twin		
Cylinder Sleeves	Cast Iron		
Lubrication	Pressurized with Spin-On Filter		
Ignition	Electronic		
Engine Speed	3600		
Governor	Mechanical		
Regulation	+/-1.8 hz Steady State		
Fuel	LP/NG Field Selectable		
Exhaust	Critical Grade, Glass-pack		
Low Oil	Shutdown		
High Oil Temp.	Shutdown		
EPA/CARB	Yes	Yes	Yes

WINCO Air-Cooled Packaged Standby Systems come standard with a 4-wire start module. A 2-wire start is optional and requires the purchase of a 2-wire conversion kit.

2-Wire Start Module

The WINCO 2-wire control module starts the generator when a dry contact closes, making it compatible with most transfer switches and other starting devices. All generator start and shutdown functions are controlled by the 2-wire control module.

4-Wire Start Module

The WINCO 4-wire control module is designed to work with the ASCO 165 4-wire transfer switches. All starting controls including start contacts, fuel solenoid contacts and time delays are built into the transfer switch.



2-wire conversion kit

Controller Features

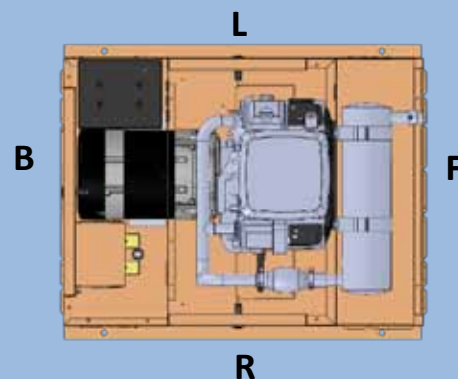
	4-Wire	2-Wire
Fail To Start	X	X
Fail To Stop	-	X
Low Oil Pressure	X ⁽¹⁾	X
High Engine Oil Temp.	X ⁽¹⁾	X
Under Frequency/Speed	X ⁽¹⁾	X
Over Frequency/Speed	X ⁽¹⁾	X
Low Voltage	X ⁽¹⁾	X
High Voltage	X ⁽¹⁾	X
Battery Over/Under Voltage	-	X
Digital Display	-	X

Notes: (1) ATS displays a generic fault code.

Model Sound Levels

	No Load				Full Load			
	L	R	F	B	L	R	F	B
PSS8B4W	63.2	64.4	66.4	63.8	64.9	65.3	68.5	65.3
PSS12H4W	64.5	62.1	68.2	66.1	67.5	64.3	69.5	66.1
PSS20B4W	63.8	68.3	65.8	62.8	75.8	77.3	77.9	74.1

Notes: (1) All measurements are in dBa. (2) Tested at 7 meters (23 ft.).



ACCESSORIES/OPTIONS

- ASCO 165 ATS (2 or 4 Wire)
- ASCO 185 ATS (2 Wire Only)
- Oil Heater Kit (With Thermostat)
- Battery Heater Kit
- Vapor Strainer Kit (3/4")



Vapor fuel strainer.

Safety Features

- Complete safety shutdowns including high oil temp, low oil pressure, low frequency and low voltage protect the generator and load.
- Over current protection by high quality thermal-magnetic Square D breaker with Visi-Trip and 1/60 second reaction time.
- Double disc fuel solenoids ensure positive fuel shut-off.
- Steel fuel inlet prevents dangerous cracks.
- CSA approved and ETL listed to UL Standard 2200.
- All models are EPA/CARB compliant.

Additional Features

- Quiet neighbor-friendly operation.
- Fire-retardant sound absorbing foam.
- Galvanneal steel weatherproof housings are strong and durable at all temperatures.
- All panels are lockable and identically keyed.
- Side panels allow access to the generator for maintenance
- Unique three chamber housing design
- Included battery charger prevents sulfation increasing the reliability and service life of the battery
- Fast automatic response to power outages with optional transfer switch can restore power in less than 30 seconds.

Electrical Specifications

Output	120/240V Single Phase
Design	Rotating Field
Poles	2
Voltage Regulation	+/-5%
Insulation	Class H
Temperature Rise	125°/40° C
Windings	100% Copper
Bearings	Weatherproof Maintenance Free
Harmonic Distortion	<5%
Rotor	2/3 Pitch
Load Acceptance	100% Rating/Single Step
DC System Voltage	12V
DC Alternator	Engine Mounted
Battery Rack/Cable	Included
Battery Charger	Included (3 Stage)
Start Battery	Group 26, 500 CCA (Not included)

LIQUID COOLED



WINCO and WINPOWER liquid-cooled automatic standby generators are designed to reliably deliver power when you need it, even when you are not on site. Each generator is designed to automatically provide back-up power for industrial applications making them suitable for anything from home standby to critical care facilities. To protect your investment, a sophisticated digital controller starts, monitors and shuts down your generator. If any key operating parameters are out of tolerance, the generator will provide a warning or immediately shut-down if the problem is serious enough. WINCO and WINPOWER offer the best features for the best long-term value.

Gaseous Generator Models

Model	PSS21	PSS30	PSS40	PSS60	PSS90	GR150	GR180
Manufacturer	WINCO PACKAGED STANDBY SYSTEM					WINPOWER GR	
Engine Data							
Engine Make	GM	GM	GM	GM	GM	PSI	Doosan
Engine Model	3.0L	3.0L	4.3L	5.7L	5.7L TAC	8.8L TCAC	11.05L TIC
Cylinders	In-line 4	In-line 4	V-6	V-8	V-8	V-8	In-line 6
Speed	1800 rpm	1800 rpm	1800 rpm	1800 rpm	1800 rpm	1800 rpm	1800 rpm
Fuel Consumption							
100% Load LP	3.9 gal/hr	4.83 gal/hr	5.91 gal/hr	9.29 gal/hr	12.4 gal/hr	672 ft³/hr	703 ft³/hr
100% Load NG	340 ft³/hr	432 ft³/hr	499 ft³/hr	799 ft³/hr	1149 ft³/hr	1752 ft³/hr	2115 ft³/hr
Electrical Performance (LP/NG) ⁽¹⁾							
120/240 1-PH (Amps)	88/88	125/117	167/167	233/229	333/375	500/583	533/712
120/208 3-PH (Amps)	76/76	104/97	139/139	208/201	278/312	433/521	469/625
120/240 3-PH (Amps)	66/66	90/84	120/120	180/174	240/270	375/452	406/542
277/480 3-PH (Amps)	37/37	45/42	60/60	90/87	120/135	187/226	203/271
Max Standby Rating ⁽²⁾⁽³⁾	25 kW	30 kW	40 kW	60 kW	90 kW	150 kW	180 kW
General Information							
dBa @ 7 Meters No Load	69	67	70	69	N/A	N/A	N/A
dBa @ 7 Meters Full Load	74	69	75	75	82	76 ⁽⁵⁾	75 ⁽⁵⁾
Warranty ⁽⁴⁾	MFG warranty from defects: 1yr/1000hrs			Engine: 3 Years/3500 Hours		Generator: 2 Years/1000 Hours	

Notes: (1) All electrical ratings assume 1.0 pf for single phase and 0.8 pf for three phase. All ratings are standby. (2) Highest rating at optimal voltage and power factor. (3) Derate 10% for prime power. All models except GR180 require on-site emissions certifications for prime power. (4) Engine warranty administered through engine manufacturer. Warranty applies to GM engines only. Contact factory for full warranty information. (5) dBA with Sound Pak enclosure. *PSS units are ETL listed to UL 2200 standards. WINPOWER models are not 3rd party certified at this time.

Standard Features:

WINCO and WINPOWER build each standby generator with the necessary features to provide reliable back-up power.

- Premium Deep Sea 7310 genset controller.
- Kim Hotstart jacket heater included standard.
- Standard 3-stage battery charger increases battery life.
- Premium Square D mainline circuit breakers.
- Battery rack and cables included standard (Battery not included).
- Each unit is 100% load tested



Diesel Generator Models

Model	DR6P2	DR12P2	DR20I4	DR30I4	DR45F4	DR65F4	DR90F4	DR100F4	DR130F4	DR175F4	DR250F4	DR300F4	DR350F4
WINPOWER DR													
Engine Data													
Make	Perkins	Perkins	Isuzu	Isuzu	FPT	FPT	FPT	FPT	FPT	FPT	FPT	FPT	FPT
Model	403D-07G	403D-07G	4LE1	4LE1	N45SM1	N45SM2	N45TM2	N67TM1	N67TM1	N67TE2	C87TE1D	C10TE1D	C13TE3X
Cylinders	In-line 3	In-line 3	In-Line 4	In-line 4	In-Line 4	In-Line 4	In-line 4	In-line 6	In-line 6	In-line 6	In-line 6	In-line 6	In-line 6
Displacement	0.7L	0.7L	2.2L	2.2L	4.5L	4.5L TAC	4.5L TAC	6.7L	6.7L TAC	6.7L	8.7L	10.3L	13L
Speed (rpm)	1800	3600	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Fuel Consumption (gal/hr)													
100% Load	.49	1.31	1.80	3.13	4.09	4.57	6.94	7.71	8.80	12.42	16.98	20.20	24.50
50% Load	.81	0.81	0.90	1.56	2.16	2.38	3.57	4.67	5.31	6.45	10.25	11.50	14.35
Electrical Performance (Amps) ⁽¹⁾⁽²⁾⁽³⁾													
120/240 1-PH	25	50	83	125	187	258	358	416	512	695	N/A	N/A	N/A
120/208 3-PH	20.8	42	69	104	156	215	312	364	451	608	867	1041	1111
120/240 3-PH	18	36	60	90	135	186	271	315	391	527	752	902	960
277/480 3-PH	9	18	30	45	68	93	135	172	195	263	376	451	526
Max Standby	6 kW	12 kW	20 kW	30 kW	45 kW	62 kW	90 kW	115 kW	130 kW	175 kW	250 kW	300 kW	350 kW
General Information													
dBA@ 7 Meters	74	76	69	73	76	76	74	77	78	79	N/A	N/A	N/A
Warranty ⁽⁴⁾	MFG warranty from defects: 1yr/1000hrs Engine: 5 Years/2000 Hours Generator: 2 Year/1000 Hours												

Notes: (1) All electrical ratings assume 1.0 pf for single phase and 0.8 pf for three phase. All ratings are standby. (2) Max standby rating is at optimal voltage and power factor. (3) Derate 10% for prime power. (4) Engine limited warranty administered through engine manufacturer. Contact factory for full warranty information. WINPOWER models are not 3rd party certified at this time.

Sub-Base Diesel Fuel Tanks:

Each WINPOWER diesel generator is compatible with UL 142 sub-base fuel tanks. Constructed of heavy duty steel, the 110% secondary containment system prevents costly environmental disasters. Other standard features include leak detection, electronic fuel gauge, UL approved vents, baffles and lockable fuel caps. The DR6P4, DR12P2 and DR20I4 are also available with an optional, in-base 32 gallon composite tank. Composite tanks are not UL142 approved.



DR30 shown with optional DOT trailer

NFPA 110 Level 1

Critical care facilities require upgraded components such as larger battery chargers, jacket heaters, and remote annunciators. Each generator can be ordered in a configuration that meets NFPA 110 Level 1 standards.



Housing Options:

All housings are constructed of 16 gauge (WINCO) 14 gauge (WINPOWER) galvalume steel with powder coat paint to protect against corrosion. Each housing comes with identically keyed lockable doors, drip edges, critical grade exhaust, sound absorbing foam, and a rodent-proof design.

- **WINCO Sound-Pak:** Each unit comes standard with a sound attenuated housing and critical grade exhaust.
- **WINPOWER Powr-Pak:** WINPOWER models are built standard in an open skid configuration with the exhaust shipped loose. (no housing)
- **WINPOWER Sound-Pak:** Sound attenuated enclosure with critical grade exhaust available for each 'DR' and 'GR' model.

AUTOMATIC TRANSFER SWITCHES

A high quality automatic transfer switch (ATS) is necessary to safely install an emergency generator. The ATS is designed to prevent the generator from back feeding the utility and to protect the generator when utility power is restored. WINCO recommends ASCO switches for our generators because over the years they have been proven in field applications to work when you need them most.

ASCO Series	165	185	300
Application	Residential	Res./Light Com.	Commercial
Start Control	4-Wire ⁽¹⁾	2-Wire	2-Wire
Memory Battery	Yes	Yes	Yes
Service Entrance Rated	No	Optional	Optional
Restore Power	<30 Sec.	<30 Sec.	<10 Sec.
Momentary Utility Failure Delay	3 Sec.	Adj 1 or 3 Sec.	Adj 0-5 Min.
Generator Cooldown	1 Min.	Adj 2-5 Min.	5 Min.
Exercise Period	14 Days	7 Days	7 Days
Exercise Time	20 Min.	20 Min.	20 Min.
Exercise on Load	Selectable	Selectable	Selectable
Transfer To Emergency Delay	15 Sec.	10 Sec.	0-5 Min.
Utility Retransfer Delay	5 Min.	5 Min.	Adj 0-20 Sec.
Standard Auxiliary Contacts	No	No	Yes (1 Set)
UL Listed	1008	1008	1008
NFPA 110 Level 1 ⁽²⁾	No	No	Yes
Electrical Features			
Available Voltages	240V, 60Hz 1-Ph	240V 60 Hz 1-Ph	≤600V 1/3-PH
Available Poles	2	2	2-4
Amperage Range	100-200	100-400	30-3000
Normal Voltage Pick-Up	204V	Adj 198-209V	Adj 90-95% Nominal
Normal Voltage Drop-Out	180V	Adj 176V or 198V	Adj 70-90% Nominal
Frequency Pick-Up	57 Hz	57 Hz	95% Nominal
Frequency Drop-Out	54 Hz	51 Hz	85% Nominal
Enclosure Options			
NEMA 1	Yes	Yes	Yes
NEMA 3R	Yes	Yes	Yes
NEMA 4	No	No	Yes
NEMA 4X	No	No	Yes
NEMA 12	No	No	Yes
Accessories			
Strip Heater	No	K732212-003	44A(Ext) 44G (Load)
Auxiliary Contacts	No	14A/14BS ⁽³⁾	14AA/14BA
Connectivity Module	No	Yes	Yes
Programmable Engine Exerciser	No	No	(11BG)
Remote Annunciator Kit	No	Yes	Yes
Remote Control			
Remote Test Switch Terminals	No	Yes	Yes
Remote Auto Transfer Terminals	No	Test	Test and Peak Shaving
Remote Time Delay Bypass Terminal	No	Yes	Yes
Notes: (1) For use with WINCO air-cooled Packaged Standby Generators only. (2) Consult factory for NFPA 110 Level 1 compliant generators. (3) Standard 260-400A.			

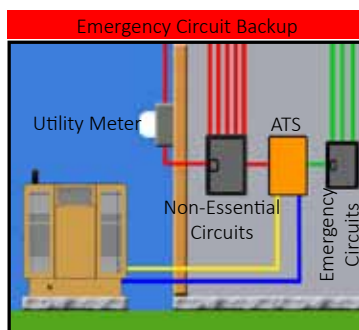


Typical Installations

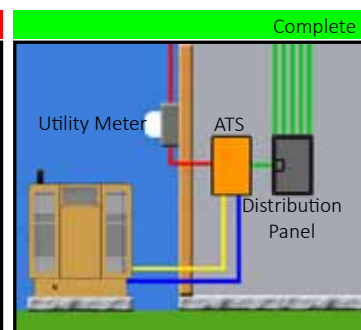
There are three common installation methods for automatic standby generators. Proper installation depends upon each application and local ordinances.

Key

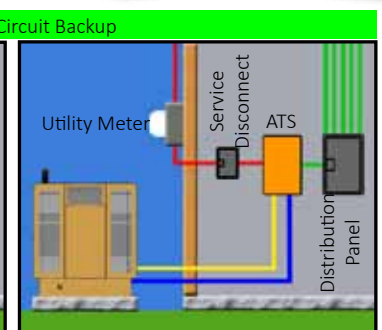
- Powered By Utility Only
- Always Powered (Gen+Util)
- Generator Output
- DC Control Wires



The ATS is installed between the main distribution panel and the emergency circuit panel. Only emergency circuits are powered by the generator during an outage.



A service entrance rated ATS is installed between the utility meter and the main distribution panel. All circuits are powered by the generator.



A non-service entrance rated ATS is installed between the service disconnect and main distribution panel. All circuits are powered by the generator.

MOBILE DIESEL GENERATORS

You don't always know what voltage you will need on the next job. WINCO REDI POWER and WINPOWER DX mobile diesel generators are designed with reliability, flexibility, and safety in mind so that electrical power is never a problem on your job sites.



Model		RP25	RP55	RP80	DX90	DX100	DX130	DX175
Manufacturer		WINCO REDI POWER			WINPOWER DX			
Engine Data								
Engine Make		Isuzu	FPT	FPT	FPT	FPT	FPT	FPT
Engine Model		4LE1	NEF45 SM1X	NEF45 SM2X	N45 TM2X	N67 TM1X	N67 TM1X	N67 TE2X
Emissions		Tier IVi	Tier III	Tier III	Tier III	Tier III	Tier III	Tier III
Speed		1800 rpm	1800 rpm	1800 rpm	1800 rpm	1800 rpm	1800 rpm	1800 rpm
Fuel Consumption (gal/hr)								
100% Load		1.80	4.09	4.57	6.94	7.71	8.8	12.42
80% Load		1.40	3.09	3.35	5.1	6.78	7.71	10.3
50% Load		0.90	2.16	2.38	3.57	4.67	5.31	6.45
Electrical Performance (Amps) ⁽¹⁾								
120/240 1-PH	Double Delta Delta ⁽²⁾	83	188	233	281	328	453	593
		Not Rated			187	218	302	395
120/208 3-PH	Low Wye	69	150	225	312	364	450	607
120/240 3-PH	Delta	60	135	195	270	315	390	525
139/240 3-PH	Low Wye ⁽³⁾	Not Rated			256	294	370	499
277/480 3-PH	High Wye	30	68	98	135	172	195	263
Max kW (Standby/Prime)		20/18	45/40.5	62/55.8	90/81	115/03.5	130/117	175/158
Max kVa (Standby/Prime)		25/22	55/50	78/70	113/102	143/130	162/145	218/196
General Information								
Control Panel		Digital	Digital	Digital	Digital	Digital	Digital	Digital
Fuel Capacity		55	110	110	175	175	175	175
dBa ⁽⁴⁾		66	68	70	74	77	78	79
Warranty ⁽⁵⁾		1 Year/1000 Hours						
Notes: (1) All electrical ratings assume 1.0 PF for single phase and 0.8 PF for three phase. (2) 120/240V 1-PH is available by pulling two phases off the Delta Connection. Care must be taken to not mistake the “Wild Leg.” (3) 139/240V 3-PH is available with a rheostat adjustment from the 120/208V 3-PH Low Wye switch position. (4) All sound levels are the loudest point at 7 meters. (21 ft).. (5) Engine warranty administered by engine manufacturers’ service network.								

Notes: (1) All electrical ratings assume 1.0 PF for single phase and 0.8 PF for three phase. (2) 120/240V 1-PH is available by pulling two phases off the Delta Connection. Care must be taken to not mistake the "Wild Leg." (3) 139/240V 3-PH is available with a rheostat adjustment from the 120/208V 3-PH Low Wye switch position. (4) All sound levels are the loudest point at 7 meters. (21 ft).. (5) Engine warranty administered by engine manufacturers' service network.

Features and Benefits

Controls

- Digital control/instrument panel resets safety shutdowns automatically when voltage changes
- 2-Wire start included standard with an easy to use DC terminal block
- Voltage selector switch is pad-lockable and shuts down the engine if anyone attempts to switch voltage during operation
- Lead connections are easy to access panel includes safety shut-down switch if access panel is opened when main line over-current circuit breaker protection with digital overload monitoring and shutdown
- Power disconnect preserves battery when not in use
- Receptacle package includes standard-terminal block; 2xNEMA 5-20R GFCI; 2x50A twist-lock (CS6369C)
- RP25 has Cam-Lock connections

Trailers

- DOT approved single wall trailer & fuel tanks
- Adjustable height couplers
- Stabilizing jacks included standard
- Optional toolbox and spare tire available

Engine

- Reliable Isuzu and FPT (Case/New Holland) engines with nationwide service networks
- Tier III and Tier IVi engines perfect for rental and prime applications without any after treatments

Generator

- Stamford industrial generators
- 100% copper windings
- Automatic voltage regulation

Switchable Voltage Options

- Standard Redi Power
 - 4 position switch provides true L-L and L-N voltage in all 4 common voltages
 - 120/240 1-PH Double Delta, 120/208 3-PH Low-Wye, 120/240 3-PH Double Delta, 277/480 3-PH High-Wye
- Standard DX
 - 3 Position: 120/208 3-PH Low-Wye, 120/240 3-PH Delta (120/240 1-PH is available using two poles excluding wild leg), 277/480 3-PH High-Wye
- Optional DX
 - 3 Position: 120/240 1-PH Double Delta, 120/208 3-PH Low-Wye (139/240 3-Ph available with rheostat adjustment), 277/480 3-PH High-Wye

PTO GENERATORS

WINCO has been manufacturing Power Take-Off (PTO) generators since 1942. Over the years WINCO generators have proven their reliability by logging millions of hours during power outages. WINCO has grown to be the largest PTO manufacturer in the United States and manufactures PTO generators suitable for everyone from the hobby farmer to large agricultural operations.



FEATURES & BENEFITS

- **Copper Windings:** All windings are 100% copper.
- **Heavy Duty Construction:** Each generator is built with a solid steel (W10PTOS & W15PTOS are aluminum) shell to protect the stator and rotor from damage and to dissipate heat. All models have steel mounting feet to facilitate trailer mounting, foundation or three point hitch installation.
- **Heavy Duty Gearboxes:** All gearboxes are constructed of cast steel. All gears are of a helical design to reduce noise and metal stress while operating much smoother than spur gears.
- **Lifting Eye:** Each generator comes with a lifting eye to aid in installation and storage.
- **Sealed Bearings:** All bearings are sealed designs that are maintenance free.
- **Mainline Circuit Breaker:** All models include a high quality Square D circuit breaker.
- **Full Power Receptacle and Plug:** Each generator up to 416 amps includes a standard full power receptacle and mating plug. Additional convenience receptacles are also provided.
- **Rodent Screen:** All models are rodent proof.
- **Buck-Boost Transformer:** Models 35 kW to 75 kW come standard with a Buck-Boost transformer. The Buck-Boost transformer holds voltages higher during heavy motor starting which increases the starting capability of WINCO PTO generators over automatic voltage regulator controlled models. To illustrate the improved motor starting, the 75FPTOC-4 is capable of starting the same motor load as the WINCO AVR controlled W105FPTOT. See the chart for motor starting capacity by model.
- **Automatic Voltage Regulator (AVR):** All models 85kW to 165kW have an AVR to electronically control excitation and maintain voltage to +/-2%.
- **PTO Safety Shield:** Every PTO generator comes with a factory installed steel safety shield to protect the operator.
- **Accessories:** WINCO offers a complete line of PTO accessories including PTO shafts, trailers, three point hitch kits and manual transfer switches. Contact your sales representative for availability and compatibility details.

DOMESTICALLY MANUFACTURED

At WINCO we are a lot more than a generator assembler. Every PTO generator from 25kW to 75kW is completely manufactured in Le Center, Minnesota. The W10PTOS, W15PTOS and models 85kW and larger are assembled in our Minnesota factory and thoroughly tested.



Automated rotor winding machine.



Multi-Spindle drills ensure precise hole alignment.

- All gearboxes and shells arrive at the factory as raw steel and castings. The steel is welded and machined to tolerance. Each gearbox is bored as a mated pair to within $\pm 0.003/1000$ " to ensure proper shaft alignment.
- The stators and rotors start the manufacturing process as raw stamped steel. The laminations are stacked, aligned, and welded. Each rotor shaft is turned in house before the rotor laminations are hydraulically pressed onto the shaft. All stator and rotor windings are wound with 100% copper wire and then epoxy dipped and baked to insulate the stator and rotor. The rotor is carefully balanced to ensure even rotation.
- All exposed steel components are powder coat painted to ensure long life by protecting the part from corrosion.
- The rotor, stator and electrical boxes are assembled by knowledgeable staff. Each generator is tested under full load to ensure proper operation and performance.



Gearcase with helical gears



Completed rotor ready for the epoxy dip

SINGLE PHASE PTO MODELS

MODEL	W10PTOS	W15PTOS	25PTOC-3	35PTOC-3	50PTOC-3	W85FPTOS	W100FPTOS	W150FPTOS
Power Rating (Watts) ⁽¹⁾	10,000	15,000	25,000	35,000	50,000	85,000	100,000	150,000
AC Output Voltage	120/240	120/240	120/240	120/240	120/240	120/240	120/240	120/240
Phase	1	1	1	1	1	1	1	1
Amps (Continuous) ⁽²⁾	42	60	104	146	208	354	416	625
Generator Speed (RPM)	3600	3600	3600	1800	1800	1800	1800	1800
Receptacles								
NEMA 5-20R	1	1	1	1	1	1	1	1
NEMA 6-50R	-	-	1	1	1	1	1	1
Full Power Plug	Included	Included	Included	Included	Included	Included	Included	Breaker ⁽⁶⁾
Tractor HP ⁽³⁾	20	30	50	70	100	170	200	290
PTO Input Speed	515	515	540 ⁽⁷⁾	540 ⁽⁷⁾	540 ⁽⁷⁾	1000	1000	1000
Code G Motor Starting ⁽⁴⁾	5	7.5	10	20	25	35	40	60
Generator Type ⁽⁵⁾	RFL(C)	RFL(C)	RAB	RFB	RFB	RFL(X)	RFL(X)	RFL(X)
Dimensions (LxWxH)	25x13x21	33x19x20	29x16x20	39x20x21	39x20x21	49x17x27	47x21x30	47x27x30
Ship Weight (lbs)	166	242	330	534	620	1,066	1,175	1,484
Warranty	1 Year	1 Year	3 Years	3 Years	3 Years	1 Year	1 Year	1 Year

Notes: (1) Continuous rating per NEMA MGI-22.40 standards. (2) Unity (1.0) power factor. (3) Recommended tractor hp for full rated output. Each 2 hp of tractor power equals approximately 1 kW of electric power output. (4) NEMA Code G capacitor start motor. (5) RFL(C) is Rotating Field Brushless, capacitor excitation; RFL(X) is Rotating Field Brushless, external regulation; RAB is Rotating Armature Brush Type; RFB is Rotating Field Brush Type. (6) Full power connection is made directly to the main line circuit breaker. (7) Optional factory installed 1000 RPM gearcase available.



Tumbling Bar Specifications	Generator PTO Power Rating	Operating Speed	Generator End Connection	Tractor End Connection	Shaft Power Rating
	10-15 kW	515	1 3/8"-6 Spline	1 3/8"-6 Spline	43
	25 kW	540	1 1/8"-Keyed	1 3/8"-6 Spline	50
	35-50 kW	540	1 3/8"-6 Spline	1 3/8"-6 Spline	90
	25-75 kW (1)	1000	1 3/8"-6 Spline	1 3/8"-21 Spline	135
	85 kW (Option 1)	1000	1 3/4"-20 Spline	1 3/4"-20 Spline	167
	85 kW (Option 2)	1000	1 3/4"-20 Spline	1 3/8"-21 Spline	167
	100-120 kW (Option 1)	1000	1 3/4"-20 Spline	1 3/4"-20 Spline	167
	100-120 kW (Option 2)	1000	1 3/4"-20 Spline	1 3/8"-21 Spline	167
	145-165 kW	1000	1 3/4"-20 Spline	1 3/4"-20 Spline	257

Notes: (1) Requires spline adaptor for use with 25FPTOC-3

THREE PHASE PTO MODELS

MODEL	40PTOC-4	45PTOC-17	75FPTOC-4	75FPTOC-17	W105FPTOT	W145FPTOT
Power Rating (kW) ⁽¹⁾	40	45	75	75	105, 105, 120	145, 145, 165
AC Output Voltage	120/208	120/240	120/208	120/240	120/208, 120/240, 277/480 ⁽⁹⁾	120/208, 120/240, 277/480 ⁽⁹⁾
Phase	3	3	3	3	3	3
Amps (Continuous)	111 ⁽²⁾	108 ⁽²⁾	208 ⁽²⁾	180 ⁽²⁾	365, 316, 180 ⁽³⁾	493, 435, 248 ⁽³⁾
Generator Speed (RPM)	1800	1800	1800	1800	1800	1800
Receptacles						
NEMA 5-20R	1	1	1	1	1 ⁽⁹⁾	1 ⁽⁹⁾
NEMA 6-50R	1	1	1	1	1 ⁽⁹⁾	1 ⁽⁹⁾
Full Power Plug	Included	Included	Included	Included	Included	Breaker ⁽⁷⁾
Tractor HP ⁽⁴⁾	80	90	150	150	210	290
PTO Input Speed	540 ⁽⁸⁾	540 ⁽⁸⁾	1000	1000	1000	1000
Code G Motor Starting ⁽⁵⁾	25	25	40	40	40	70
Generator Type ⁽⁶⁾	RFB	RFB	RFB	RFB	RFL(X)	RFL(X)
Dimensions (LxWxH)	38x23x20	38x23x20	44x23x20	44x23x20	47x21x30	47x27x30
Ship Weight (lbs)	538	558	742	738	1,216	1,504
Warranty	3 Years	3 Years	3 Years	3 Years	1 Year	1 Year

Notes: (1) Continuous rating per NEMA MGI-22.40 standards. (2) Unity (1.0) power factor. (3) 0.8 power factor. (4) Recommended tractor hp for full rated output. Each 2 hp of tractor power equals approximately 1 kW of electric power output. (5) NEMA Code G capacitor start motor. (6) RFL(C) is Rotating Field Brushless, capacitor excitation; RFL(X) is Rotating Field Brushless, external regulation; RAB is Rotating Armature Brush Type; RFB is Rotating Field Brush Type. (7) Full power connection is made directly to the main line circuit breaker. The W165FPTOT-18 has a full power plug included. (8) Optional factory installed 1000 RPM gearcase available. (9) No receptacles on 480V machines.

WINPOWER

Powr-Pak®

WINPOWER has set the standard for quality in the industrial and agricultural world since 1925. The Powr-Pak 'DE' design is perfect for installations in spray rigs or anywhere space is limited. Units are backed by a strong national service network. DE units do not have housing options. Units are available in 120/240V single phase or 120/240V, 120/208V, or 277/480V three phase.

Model	DE20I4	DE30I4	DE45I4	DE65I4
Standby Rating	*20kW@125°	*30kW@105°	*45kW@105°	*60kW@125°/ 62kW@150°
Prime Power Rating	*18kW@105°	*27kW@105°	*40kW@105°	*56kW@125°
Engine Data				
Make	Isuzu	Isuzu	FPT	FPT
Model	2.2 L 4LE1	2.2L 4LE1 T	4.5 L N45 SM1 T	4.5 L N45 SM2 T
Gross HP	32	46.9	65	94
Cylinders	4	4	4	4
EPA	Tier IVi	Tier IVi	Tier III	Tier III
Alternator Data				
Type	4 pole Revolving Field			
Speed	1800 RPM			
Insulation	Class H			
THD	<5%			
Voltage Regulation	1.50 %			
Fuel Consumption				
100% Load	1.8 gal/hr	1.99 gal/hr	3.975 gal/hr	4.57 gal/hr
50% Load	0.9 gal/hr	1.0 gal/hr	2.35 gal/hr	2.72 gal/hr
Warranty				
Engine	1 yr/Unlimited hours			
Unit	1 yr/1000 hours			
*kW ratings for three phase units only. Please see individual specification sheets when ordering				

Accessories:

Controllers

- *Key start: low oil, overtemp, hour meter (standard)
- DSE 3110 Digital Controller
- DSE 7310 Digital Controller

Engine Accessories

- Block heater
- Battery charger

Fuel Tanks

- Composite-32 gal
- Steel single wall-30 gal
- Steel double wall-30 gal



Digital Controller Features

Engine Display/Protection	DSE 3110	DSE 7310
Engine RPM	X	X
Low Oil Pressure	X	X
High Coolant Temp	X	X
Low Coolant Level	-	Optional
Overspeed	X	X
Underspeed	X	X
Overcrank	X	X
Charging Alternator Fail	X	X
CAN ECU Shutdown	X	X
Genset Display/Protection		
Voltage (L-N) Display	-	X
Voltage (L-L) Display	X	X
Overvoltage Shutdown	X	X
Undervoltage Shutdown	X	X
Frequency Display	X	X
Overfrequency Shutdown	X	X
Underfrequency Shutdown	X	X
Phase Imbalance	-	Disabled
Amp Display/Shutdown	-	X
kW, kVAh, kVAh Display	-	X
kWh, kVAh, kVAh Display	-	X
Generator Phase Sequence	-	X
Earth Current	-	Optional
Additional Displays/Protections		
Emergency Stop	X	X
Fuel Leak/Sender Failure	-	X
High Fuel Level	-	Optional
Low Fuel Level	X	X
Fuel Level Gauge (Digital)	-	X
Battery Voltage	X	X
Battery Over/Under Voltage	X	X
Battery Charger Failure	-	Optional
Communications		
USB Connectable	X	X
RS232/RS485	-	X
NFPA Annunciator	-	X
Remote Display Panel	-	3xDSE2510
Ethernet	-	Optional
Additional Features		
Audible Alarm	-	X
Engine Exerciser	-	Programmable
Maintenance Interval Timer	-	3 Events
Load Shedding/Dummy	-	5 Step
Configurable Inputs	6	9-24w/ DSE2130
Configurable Outputs	4	6-80w/ DSE2751
Event Log	-	250
Alternative Configurations	-	3
UL/CSA Listed	X	X

Emergen-C Series Vehicle Mounted Generators

WINCO vehicle mounted generators are built in the USA to exceed the requirements of the most demanding applications. Professionals trust the name that has been building generators to a higher standard since 1927.

Generator End:

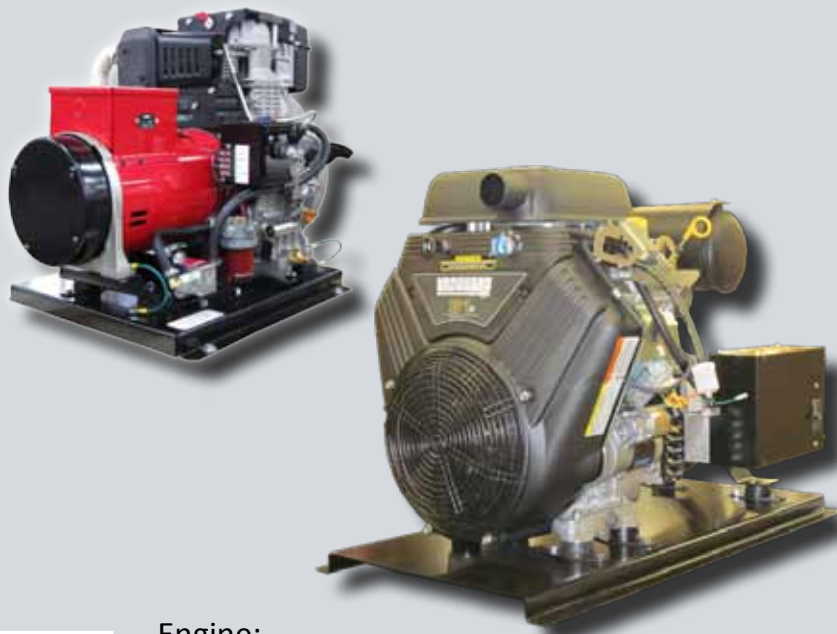
In high pressure situations it is important to know that your equipment is up to the task. Each EC Series generator end is built with the commercial user in mind.

- 100% copper windings are more efficient, more durable, and provide superior motor starting.
- All models are rotating field brushless designs. The only regular maintenance these generators require is an exercise period every three to four weeks to remove any built up moisture in the windings.
- +/-5% voltage regulation is standard (+/-1% EC22000VE)

Model	EC6010DR (Diesel)	EC18000VE	EC22000VE
Surge Watts	6000	18000	22000
Cont. Watts	5500	15000	19000
Amps 240 Volt	23	62.5	79
Generator Regulation		<5%	
Frequency Regulation		<5%	
Engine	Yanmar	B&S Vanguard	
Engine Model	L100V	Model 54	Model 61
Engine RPM		3600	
Displacement	462 cc	895 cc	993 cc
Engine Cylinders	Single	V-Twin	
Low Oil Protection		Standard	
DBA at 7 Meters	83	79	N/A
Full Pressure Oil Lube		Standard	
Spin-On Filter	-	Standard	
Motor Starting (Code G)	2.5 HP	6 HP	7.5 HP
Mainline Circuit Breaker	N/A	60 AMP	80 AMP
120/240 Volt Receptacles	N/A	NEMA 14-60	N/A
Warranty (ENG/GEN)	2yrs/2yrs	3yrs/2yrs	

Note: Each WINCO EC Series generator comes from the factory with standard electric start. A 12V start battery (not included) is required.

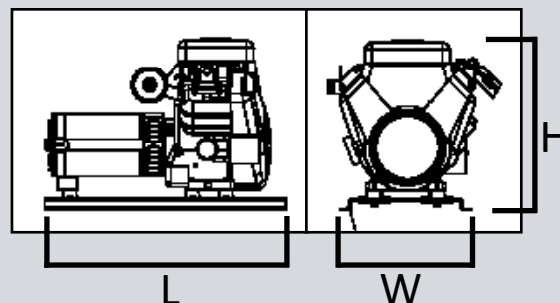
Fuel Consumption (Gal/Hr)				
Model	100%	50%	25%	0%
EC6010DR	0.57	0.38	N/A	N/A
EC18000VE	2.71	2.10	1.20	0.94
EC22000VE	3.28	1.88	1.43	0.95



Engine:

Each EC Series generator is designed with commercial grade engines that are capable of providing reliable power when it is needed.

- Yanmar L100V single-cylinder, air-cooled direct injection diesel engines utilize a counter-balancing system for a smooth, high-speed operation. This engine is an EPA certified Tier IV engine.
- Briggs & Stratton Vanguard is the proven industry standard for BIG BLOCK™ engine power, performance and reliability. Engines are CARB and EPA compliant.
- Cast iron cylinder sleeves increase engine life and reduce oil consumption.
- Pressurized lubrication system with spin on oil filters (EC6010DR does not use spin-on filter)
- Low oil shutdown is included standard on all EC engines.



Dimensional Data				
Model	L	W	H	Weight
EC6010DR	27	22.5	22	254 lbs
EC18000VE	34	21.2	24	326 lbs
EC22000VE	38	20.7	24.6	495 lbs



Emergen-C Series Vehicle Mounted (PTO) Generators

WINCO vehicle mounted PTO generators are a time tested design that will get the job done. These generators are built in our Le Center, Minnesota facility. We control each step of the manufacturing procedures to make sure our generators will last. Various models are available in single and three phase voltages to meet any application.

- Made In USA
- 100% Copper Windings
- 25kW Versions AVR
- 35-75 kW buck boost transformer regulated for superior motor starting
- Durable bar and ring or cast shells
- Quality design provides exceptionally long life.
- Available with optional meter package



Electrical Data	ECV2510FPTOU-3 ECV2512FPTOU-3	EC35PSB4G-3	EC40PSB4G-4* EC45PSB4G-17	EC55PSB4G-3	EC75PSB4G-4 EC75PSB4G-17
Max Power Rating	25 kW	35 kW	40 kW 45 kW	55 kW	75 kW
Cont. Power Rating ^{(1) (2)}	20 kW	35 kW	40 kW 45 kW	55 kW	75 kW
Voltage ⁽³⁾	120/240	120/240	120/208 120/240	120/240	208*/240
Phase	1	1	3	1	3
Max Current	104A	146A	111A 108A	229A	208/180A
Cont. Current ^{(1) (2)}	83A	146A	111A 108A	229A	208/180A
Motor Starting ⁽⁴⁾	7.5 hp	20 hp	30 hp	30 hp	40 hp
Generator Rotor Speed	3600 RPM	1800 RPM	1800 RPM	1800 RPM	1800 RPM
Conduit MTG.KO(s) Size (Qty)	1 ¼" (1)	2" (2), ½" (2)	2" (2), ½" (2)	2" (2), ½" (2)	2" (2), ½" (2)
Conductor Size (Qty)	#10 Pwr-36" (6) #4 Grnd-36" (1)	N/A	N/A	N/A	N/A
Input HP	50	65	80	95	125
Input Drive Speed	1000/1181	1800	1800	1800	1800
Input Shaft Size	1 ½" Keyed	1 ¾" Keyed	1 ¾" Keyed	1 ¾" Keyed	1 ¾" Keyed
Drive/Rotation Direction	Gear/Either	Direct/Either	Direct/Either	Direct/Either	Direct/Either
L x W x H	26.4"x19.4"x12.3"	28.7"x19.2"x16.4"	28.7"x19.2"	34.8"x19.2"x16.4"	34.8"x19.2"x16.4"
Net Weight	287/275 lbs	416 lbs	420 lbs	598 lbs	605 lbs
Shipping Weight	318/306 lbs	436 lbs	440 lbs	618 lbs	638 lbs
Warranty	1 yr	1 yr	1 yr	1 yr	1 yr
NOTES: (1)Continuous rating per NEMA MG1-22.40 (2) Unity (1.0) power factor (3) +/-7% (4) NEMA code G capacitor start motor					
*Call WINCO service department before ordering EC75PSB4G-4 & EC40PSB4G-4					

2-BEARING GENERATORS



There is no question that WINCO's two-bearing generators are the most rugged generators on the market. Epoxy baked rotors, oversized diodes, cast iron drive-side end brackets, and double sealed permanent bearings all combine to ensure maximum performance and life. Units are designed to rotate in either direction without rewiring, making them very flexible for any application. Each generator is rated at unity power factor, requiring approximately two HP of input for each 1,000 watts of output from the generator. Each unit is 100% factory tested instead of statistical sampling to ensure performance and reliability.

MODEL	UL2FS2MP-1	8KS2GC-3 (1)	TB2400C	TB4000C (2)	TB6000C (2)	TB7200GFI (2)
Watts	2000	8000	2400	4000 (3)	6000	7200
Amps	16.7	66.6/33.3	20	33.3/16.6	50/25	60/30
Volts (60 HZ)	120	120/240	120	120/240	120/240	120/240
Rotor Speed	3600 RPM	3600 RPM	3600 RPM	3600 RPM	3600 RPM	3600 RPM
Motor Starting	.5 HP	3 HP	.75 HP	1.5 HP	3 HP	5 HP
Generator Type	Brush	Brush	Brushless	Brushless	Brushless	Brushless
Receptacles						
120V NEMA 5-15R	2	2	-	-	-	-
120V NEMA 5-20R	-	-	2	4	4	-
120V NEMA L5-15R	-	-	-	-	-	4
240V NEMA 6-15R	-	2	-	-	-	-
240V NEMA 6-50R	-	1	-	-	-	-
120/240V NEMA L14-30R	-	-	-	1	1	1
Circuit Breakers	Included	-	Included	Included	Included	Included
Length	15"	19"	14.25"	17.75"	17.75"	15.13"
Width	6.5"	12"	8.5"	8.5"	8.5"	8.5"
Height	6.75"	17.75"	8.94"	8.94"	8.94"	8.94"
Shaft Diameter	.625"	1.25"	1.125"	1.125"	1.125"	1.125"
Weight	56 lbs	175 lbs	61 lbs	67 lbs	86 lbs	67 lbs
Warranty (4)	1 yr	1 yr	1 yr	1 yr	1 yr	1 yr

Notes: (1) AC voltmeter included standard (2) Unit can be reconnected for 120 volt full power



STAMFORD 2-BEARING GENERATORS

Irrigation and Industrial Applications

Features and Benefits:

- 1800 RPM operation
- Keyed shaft
- +/-1% voltage regulation
- Electronic automatic voltage regulator
- Excitation Boost System (EBS) standard, withstands 300% short circuit
- 12 lead reconnectable
- Clean power, <5% Total Harmonic Distortion

MODEL	IRRIGATION WATTS	120/240V 1-PH DBL DELTA	120/208V 3-PH 120/240V 3-PH	277/480 3-PH	INPUT RPM	SHAFT DIAMETER	WEIGHT
PI044H2	8.5 kW	13.9 kW	16.6 kW	17.7 kW	1800 rpm	42 mm	261 lbs
PI144D2	10.0 kW	14.3 kW	19.0 kW	21.0 kW	1800 rpm	42 mm	291 lbs
PI144E2	12.5 kW	17.8 kW	23.7 kW	25.2 kW	1800 rpm	42 mm	323 lbs
PI144F2	15.0 kW	19.7 kW	26.1 kW	27.8 kW	1800 rpm	42 mm	332 lbs
PI144G2	17.5 kW	21.4 kW	28.4 kW	31.5 kW	1800 rpm	42 mm	368 lbs
PI144J2	20.0 kW	28.5 kW	38.7 kW	39.9 kW	1800 rpm	42 mm	441 lbs
PI144K2	25.0 kW	36.2 kW	42.5 kW	46.2 kW	1800 rpm	42 mm	461 lbs

Notes: (1) Irrigation watts motor starting based upon 1 kW = 1 HP motor starting for 480V 3-PH (2) All models include the EBS standard (3) All models are 12-Lead reconnectable (4) Most units drop ship from Stamford. Contact factory for availability.



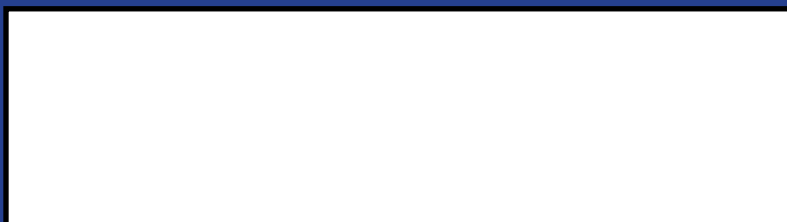


All WINCO and WINPOWER generators are designed and manufactured in a 200,000 square foot facility located in Le Center, Minnesota.

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