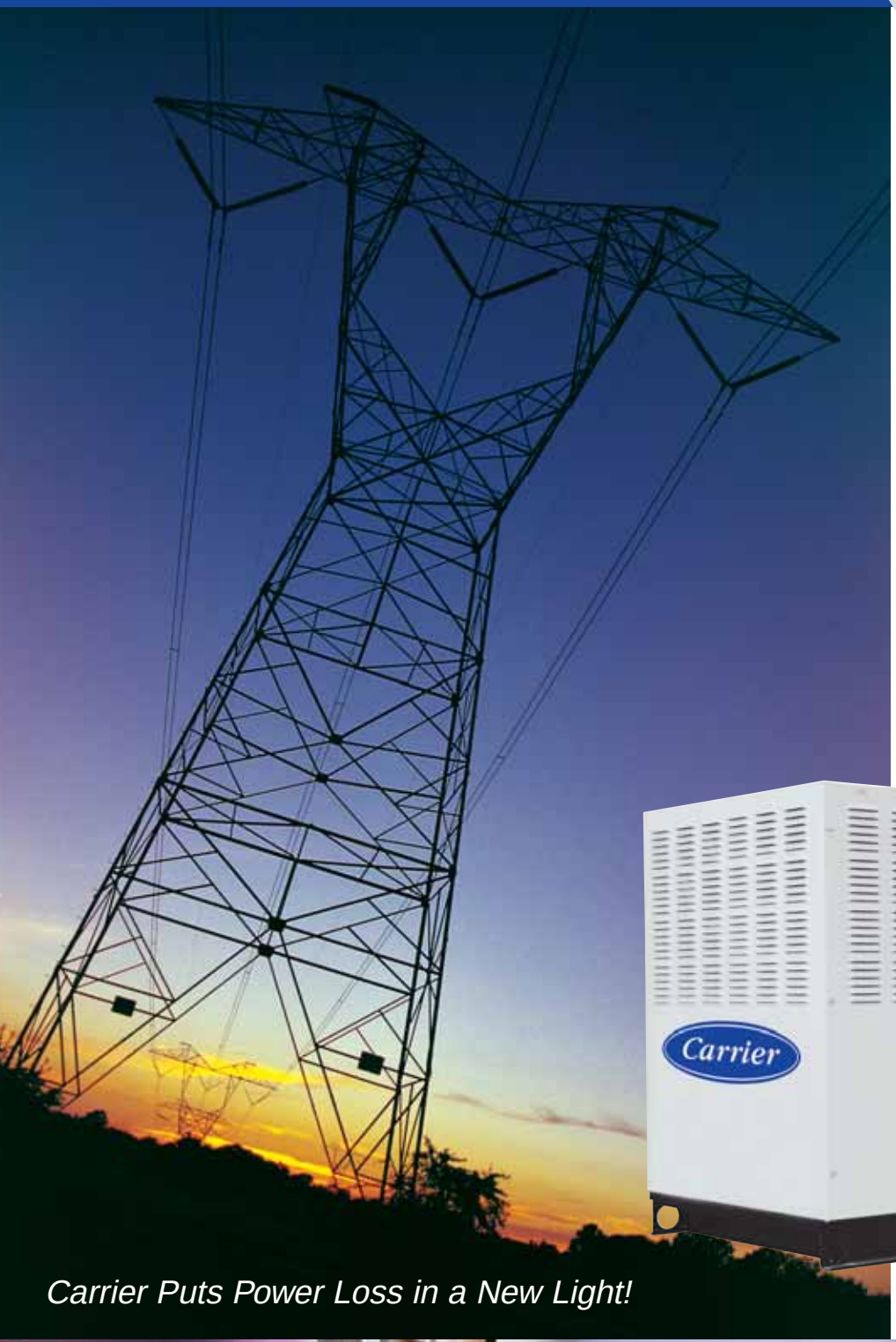
Commercial Series Standby Generators

Carrier®

Turn to the Experts.

Standby Power Solutions up to 150 kW



Carrier Puts Power Loss in a New Light!

Commercial Series Standby Generators

20-25kW 35-45kW 60kW

- **MODEL SELECTION 20-150kW**
  Broadest line of generator power output (kW) in the industry
- **ULTRA-QUIET MODE**
  Patent-pending self-test feature makes the Carrier commercial models 50% quieter
- **MULTIPLE VOLTAGE OPTIONS**
  Single and three phase voltage options
- **SUPERIOR PAINT**
  provides corrosion-resistance and durability
- **ENCLOSURE OPTIONS**
  Steel or corrosion - resistant aluminum
- **RUN ON NATURAL GAS OR LP GAS**
  Environmentally friendly & readily available
- **SAFETY**
  UL listed for safety and electronic governor for sensitive electronics

From gas stations to restaurants to manufacturing facilities, no one can afford to be without a CARRIER Commercial Series standby generator.

Imagine what any of these businesses would lose if the power failed for an extended period. How many gallons of gas would go unsold? How many cartons of ice cream would melt? How much food would spoil in a grocery store? And what would happen if a manufacturer had to halt production? The good news is that unfilled orders, late shipments and missed opportunities don't have to happen. In many cases, a CARRIER standby generator pays for itself in just one outage.

CARRIER Commercial Series models range in output from 20 to 150kW. These models are designed and engineered for maximum value and affordability, making them ideal for protecting businesses. Standby power prevents loss of inventory, disruption in communication and missed sales.

CARRIER commercial standby models operate at a reduced speed during the weekly self-testing cycle. This is especially important in areas where residences or other businesses are close by.

Other options include larger displacement engines that run at slower speeds and optional steel or aluminum enclosures. The aluminum, corrosion-resistant enclosure stands up to harsh conditions, which is extremely important in coastal areas where the sea air can destroy most metals.

R-Series Digital Controller (Models 20-60kW)

R-Series Digital Controller with built-in governor control monitors the utility voltage and displays system faults. This high-quality controller also oversees the transfer switch, exercise cycle and ultra quiet mode feature.

70kW 80-150kW

What is the Ultra-Quiet Mode?

Standby generators typically run for fifteen to twenty minutes weekly during the self-testing cycle. Noise outputs during that time may be of concern, so to eliminate harsh or unpleasant sounds, the ultra-quiet mode was developed.

The generator starts up and operates at a reduced speed while exercising, reducing sound output by as much as 12 decibels for units that normally run at higher speeds under load.

SELF TEST MODE →

AT FULL LOAD →

What is the cost of any business losing communication among facilities, supplier or vendors?

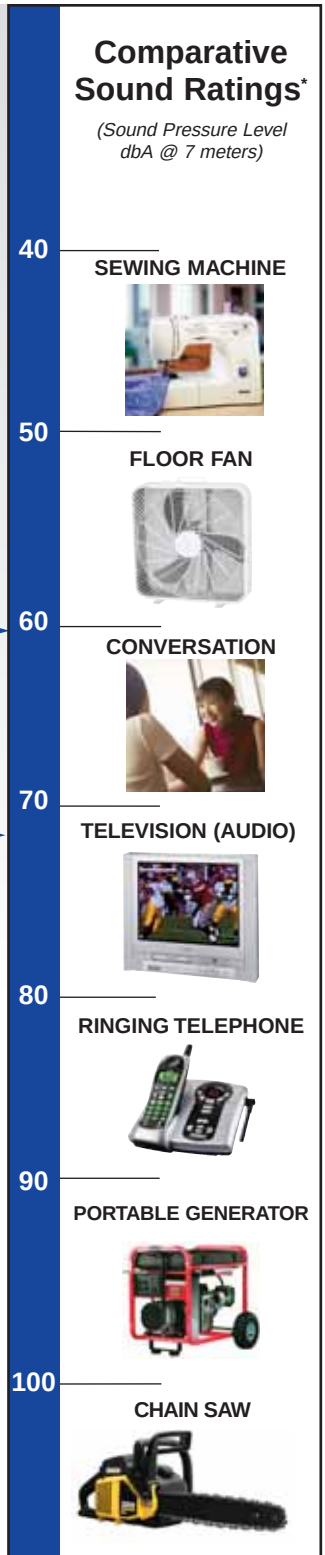
Application	Lost Sales Per Hour	Typical kW	Generator Cost*	Payback Hours
Gas Station	$445	35 kW	$13,100	29
Restaurant	$705	60 kW	$15,500	21
Drug Store	$1,400	70 kW	$17,400	12
Supermarket	$3,510	150 kW	$34,100	10

**Approximate generator cost with installation*

50%
QUIETER DURING WEEKLY SELF-TESTING CYCLE

Comparative Sound Ratings*

(Sound Pressure Level dbA @ 7 meters)



**Sounds levels may vary depending on surroundings.*

PowerManager® H-100 Controller (Models 70-150kW)

The PowerManager H-100 controller brings generator control and monitoring to a new level of sophistication. This full-featured controller boasts 32-bit processing for quick and simultaneous monitoring of all key generator functions including engine protection, voltage regulation and governor regulation.

CT070	CT080	CT100	CT100	CT130	CT150
70	80	100	100	130	150
292 243 105	333 278 120	417 347 150	417 347 151	542 452 196	625 521 226
1800	3600	3600	2300	3000	3600
1800	3600	3600	1800	1800	3600
6.8L V-10	4.6L V-8	5.4L V-8	6.8L V-10	6.8L V-10	6.8L V-10
411 (11.3) 1020	465 (12.78) 1154	553 (15.2) 1374	507 (13.9) 1260	719 (19.8) 1786	830 (22.8) 2061
73	74	77	75	74	76
60	61	64	61	61	62
H-100	H-100	H-100	H-100	H-100	H-100
HTS 150-400	HTS 150-400	HTS 200-600	HTS 200-600	HTS 200-600	HTS 300-800
97 x 37 x 48	116 x 37 x 55*	116 x 37 x 55*	116 x 37 x 55*	116 x 37 x 55*	116 x 37 x 55*
2185 2040	2010 1836	2311 2137	2705 2531	2873 2699	2666 2492

HTS Transfer Switches

HTS 100-800 AMP - Designed for simple monitoring, operation and maintenance. Common controls and LED lights are conveniently located on front door panel. All components are front adjustable and removable for serviceability. **HTS transfer switches can only be used with the generators featuring the H-100 digital control panel.**

Amps	100			150			200				300		
Voltage	120/240,1ø	120/208,3ø	277/480,3ø	120/240,1ø	120/208,3ø	277/480,3ø	120/240,1ø	120/208,3ø	277/480,3ø		120/240,1ø	120/208,3ø	277/480,3ø
Load Transition Type	Open Transition			Open Transition			Open Transition				Open Transition		
Enclosure Type	NEMA 1 / 3R			NEMA 1 / 3R			NEMA 1 / 3R				NEMA 1 / 3R		
Withstand Rating (Amp)	14,000			25,000			25,000				35,000		
Dimensions (H" x W" x D")	36 x 24 x 10			36 x 24 x 10			36 x 24 x 10			48 x 30 x 12	36 x 24 x 10		48 x 30 x 12
Weight (lbs.) NEMA 1	86	89	105	86	89	105	86	89	105		101	108	124
NEMA 3R	112	115	131	112	115	131	112	115	131		127	134	150

Amps	400			600			800		
Voltage	120/240,1ø	120/208,3ø	277/480 3ø	120/240,1ø	120/208,3ø	277/480,3ø	120/240,1ø	120/208,3ø	277/480 3ø
Load Transition Type	Open Transition			Open Transition			Open Transition		
Enclosure Type	NEMA 1 / 3R			NEMA 12 / 3R			NEMA 12 / 3R		
Withstand Rating (Amp)	35,000			42,000			65,000		
Dimensions (H" x W" x D")	36 x 24 x 10		48 x 30 x 12	60 x 36 x 20			60 x 36 x 20		
Weight (lbs.) NEMA 1	101	108	124	-	-	-	-	-	-
NEMA 12 / 3R	127	134	150	650	650	650	680	680	680

All specifications are subject to change without notice.

Commercial Series 20-60kW

All models are available in steel or corrosion-resistant aluminum for additional cost.

Model Name	CT020	CT025	CT035	CT045	CT060
Rated Power LP/NG kW	20	25	35	45	60
Rated Amps @ 60Hz 120/240V, 1ø, 1.0pf 120/208V, 3ø, 0.8pf 277/480V, 3ø, 0.8pf	 N/A 70 N/A	 N/A 87 N/A	 N/A 122 53	 N/A 156 68	 250 208 90
Engine Speed @ Load	3600	3600	3600	3600	3600
Alternator Speed	3600	3600	3600	3600	3600
Engine	1.6L 4-Cyl.	1.6L 4-Cyl.	2.4L 4-Cyl.	2.4L 4-Cyl.	3.0L V-6
Fuel Consumption *@ rated power* LPG cu.ft/hr *(gal/hr)* NG cu.ft/hr	 125 (3.44) 315	 175 (4.81) 437	 222.3 (6.11) 560	 286 (7.86) 720	 376.3 (10.34) 960
Sound Emissions *dbA @ 7 meters* Avg. Sound Level @ Full Load	 75	 76	 74	 75	 75
Avg. Sound Level @ Exercise	62	63	63	63	61
Control System	R-100	R-100	R-100	R-100	R-100
Suggested Transfer Switch	RTS 100-200	RTS 100-200	RTS 100-200	RTS 100-200	RTS 100-400
Dimensions (L" x W" x H")*	71 x 29.5 x 36	71 x 29.5 x 36	77 x 34 x 46	77 x 34 x 46	89 x 34 x 48**
Generator Weight (lbs.) Steel Aluminum	785 694	794 704	1393 1276	1414 1297	1650 1513

**Height does not include measurement of models with an exhaust stack. See individual specification sheet for dimensions. Specifications are subject to change without notice.*

RTS Transfer Switches

RTS 100-400 AMP - Designed for a wide variety of applications that require up to 400 Amps. NEMA 3R models are intended for outdoor use to provide a degree of protection against falling rain; undamaged by the formation of ice on the enclosure. **RTS transfer switches can only be used with the generators featuring the R-Series digital control panel.**

Amps	100		200		400	
Voltage	120/208, 3ø	277/480, 3ø	120/208, 3ø	277/480, 3ø	120/240, 1ø	120/208, 3ø
Load Transition Type (Automatic)	Open Transition	Open Transition	Open Transition	Open Transition	Open Transition	Open Transition
Enclosure Type	NEMA 3R	NEMA 3R	NEMA 3R	NEMA 3R	NEMA 3R	NEMA 3R
Withstand Rating (Amp)	10,000	10,000	10,000	10,000	18,000	18,000
Dimensions (H" x W" x D")	24 x 20 x 7	36 x 24 x 10	24 x 20 x 7	48 x 30 x 12	36 x 24 x 10	48 x 30 x 12
Weight (lbs.)	49	95	49	105	88	107

NEMA RATINGS

NEMA 1 models are intended for indoor use primarily to provide a degree of protection against contact with the enclosed equipment in locations where unusual service conditions do not exist.

NEMA 3R models are intended for outdoor use as they provide a degree of protection against falling rain; undamaged by the formation of ice on the enclosure.

NEMA 12 models are intended for indoor use primarily to provide a degree of protection against dust, falling dirt, and dripping non-corrosive liquids.

Easy Order Selection Guide

	STEP 1	STEP 2	STEP 3	STEP 4	STEP 5	STEP 6
	kW Ratings *e.g. (45kW = 045)*	**Engine** *e.g. (5.4L = 54)*	**Voltage** *120/240V 1ø= **A*** *120/208V 3ø= **G*** *277/480V 3ø= **K***	**Fuel** *Natural Gas = **N*** *Propane Vapor = **V***	**Enclosure** *Steel = **S*** *Aluminum = **A***	**Emission/ Catalytic Converter**
ALL MODELS BEGIN WITH CT	20	1.5L @ 3600 RPM	**G**	**N, V**	**S, A**	No Catalyst **= N**
	25	1.6L @ 3600 RPM	**G**	**N, V**	**S, A**	Catalyst & A/F Ratio **= Y***
	35	2.4L @ 3600 RPM	**G, K**	**N, V**	**S, A**	
	45	2.4L @ 3600 RPM	**G, K**	**N, V**	**S, A**	
	60	3.0L @ 3600 RPM	**A, G, K**	**N, V**	**S, A**	
	70	6.8L @ 1800 RPM	**A, G, K**	**N, V**	**S, A**	
	80	4.6 @ 3600 RPM	**A, G, K**	**N, V**	**S, A**	
	100	5.4L @ 3600 RPM	**A, G, K**	**N, V**	**S, A**	
	100	6.8L @ 2300 RPM GEAR DRIVE	**A, G, K**	**N, V**	**S, A**	
	130	6.8L @ 3000 RPM GEAR DRIVE	**A, G, K**	**N, V**	**S, A**	
	150	6.8L @ 3600 RPM	**A, G, K**	**N, V**	**S, A**	
	C T	1 0 0	5 4	K	N	S	N
	C T						

**Restricted emission units above 25 kW are not available at this time. 25 kW units and below are emissions compliant. Please consult local codes.*

TRANSFER SWITCHES **Selection Criteria**	STEP 1 **Transfer Switch** *R-100 Controller = **RTS*** *H-100 Controller = **HTS***	STEP 2 **Switch Type** *Normal (Switch only) = **N***	STEP 3 **Amp Rating** *e.g. (200 Amp = 200)*	STEP 4 **Voltage** *120/240V 1ø= **A*** *120/208V 3ø= **G*** *277/480V 3ø= **K***	STEP 5 **Enclosure Type*** *NEMA 1= **1*** *NEMA 3R= **3*** *NEMA 12= **4***	
For engines up to and including 3.0L						**ALL TRANSFER SWITCH MODELS END WITH C**
All 208 & 480V	**RTS**	**N**	**100, 200** **400**	**G, K** **A, G**	**3** **3**	
For engines over 3.0L						
Includes all amperage and voltage ratings.	**HTS**	**N**	**100, 150, 200, 300, 400** **600, 800**	**A, G, K** **A, G, K**	**1, 3** **3, 4**	
Example Type Code	R T S	N	2 0 0	G	3	C
FINAL PRODUCT CODE FOR ORDERING						C

NOTE: There are no returns, changes or cancellations on Carrier Commercial Series orders. This equipment is built-to-order.

To place an order contact your Carrier Representative. For more information visit www.carriercpl.com.