

SENTRY-PRO

WITH LPG-NATURAL GAS FUEL

AUTO. START-STOP, DRY FUEL HOUSED STANDBY SETS SPECIFICATIONS.
 NOTE: 1 PH. AND 3 PH. POWER SPECIFICATIONS, INDICATE TWO DIFFERENT
 GENERATOR SETS, ADD "-3" TO ALL MODELS FOR 3 PHASE GEN-SETS.

50 HERTZ

**1 PHASE, 110/220 VOLTS OR
 3 PH., 220, 380, 415, 400 VOLTS**

| .GENERATOR MODEL | | SP-180-5 | | SP-220-5 | | SP-300-5 | | SP-420-5 | | SP-520-5 | | SP-620-5 | | SP-850-5 | | SP-1000-5 | | SP-1250-5 | |
|--|---|----------|---------|----------|----------|-----------|------------------|-----------|----------------------------|-----------|-----------|-----------|-----------------------------|------------|-----------|------------|------------------|------------|-------|
| TYPE OF FUEL USED | | LPG | N G | LPG | N G | LPG | N G | LPG | N G | LPG | NG | LPG | N G | LPG | N G | LPG | N G | LPG | N G |
| 1 PH. | MAXIMUM KW @ SINGLE PHASE | 14.0 | 14.0 | 18.0 | 18.0 | 24.0 | 22.0 | 34.0 | 32.0 | 42.0 | 40.0 | 50.0 | 48.0 | 64.0 | 64.0 | 70.0 | 68.0 | 92.0 | 100.0 |
| | STANDBY KW @ SINGLE PHASE | 14.0 | 14.0 | 18.0 | 18.0 | 22.0 | 20.0 | 32.0 | 30.0 | 40.0 | 37.0 | 46.0 | 45.0 | 60.0 | 60.0 | 67.0 | 64.0 | 84.0 | 92.0 |
| | STANDBY AMPS @ 110 VOLT, 1Ø | 120 | 120 | 164 | 164 | 200 | 182 | 290 | 272 | 364 | 336 | 418 | 410 | 546 | 546 | 612 | 582 | 764 | 836 |
| | STANDBY AMPS @ 220 VOLT, 1Ø | 60 | 60 | 82 | 82 | 100 | 91 | 145 | 136 | 182 | 168 | 209 | 205 | 273 | 273 | 306 | 291 | 382 | 418 |
| 3 PHASE | MAXIMUM KVA @ 3 PHASE .8 P.F. | 17.5 | 17.5 | 22.5 | 22.5 | 30.0 | 27.5 | 42.5 | 40.0 | 52.5 | 47.5 | 62.5 | 60.0 | 85.0 | 82.5 | 100.0 | 95.0 | 115.0 | 125.0 |
| | STANDBY KVA @ 3 PHASE .8 P.F. | 17.5 | 17.5 | 22.5 | 22.5 | 27.5 | 25.0 | 40.0 | 37.5 | 50.0 | 43.0 | 56.0 | 56.0 | 80.0 | 77.5 | 96.0 | 92.5 | 105.0 | 115.0 |
| | STANDBY KW @ 3 PHASE .8 P.F. | 14.0 | 14.0 | 18.0 | 18.0 | 22.0 | 20.0 | 32.0 | 30.0 | 40.0 | 34.0 | 46.0 | 45.0 | 64.0 | 62.0 | 77.0 | 74.0 | 84.0 | 92.0 |
| | STANDBY AMPS @ 220 VOLT, 3Ø | 46 | 46 | 59 | 59 | 72 | 66 | 105 | 99 | 131 | 112 | 151 | 148 | 210 | 204 | 253 | 243 | 276 | 302 |
| | STANDBY AMPS @ 380 VOLT, 3Ø | 27 | 27 | 34 | 34 | 42 | 38 | 61 | 57 | 76 | 65 | 88 | 86 | 122 | 118 | 146 | 141 | 160 | 175 |
| | STANDBY AMPS @ 415 VOLT, 3Ø | 24 | 24 | 31 | 31 | 38 | 35 | 56 | 52 | 70 | 59 | 80 | 78 | 111 | 108 | 134 | 129 | 146 | 160 |
| STANDBY AMPS @ 400 VOLT, 3Ø | 25 | 25 | 33 | 33 | 40 | 36 | 58 | 54 | 72 | 61 | 83 | 81 | 116 | 112 | 139 | 134 | 152 | 166 | |
| GENERAL MOTORS, VORTEC ENG. | 3.0 L | 3.0 L | 3.0 L | 3.0 L | 3.0 L | 3.0 L | 4.3 L | 4.3 L | 5.7L | 5.7L | 5.7 L | 5.7 L | 8.1 L | 8.1 L | 8.1 L | 8.1 L | 8.1L T | 8.1L T | |
| ENGINE INDUCTION SYSTEM | NATURALLY ASPIRATED | | | | | | | | | | | | NAT. ASPIRATED MODIFIED CAM | | | | TURBOCHARGED | | |
| ENGINE HORSE POWER MAX RATING | 35 HP | 35 HP | 35 HP | 35 HP | 35 HP | 33 HP | 54 HP | 51 HP | 88 HP | 84 HP | 88 HP | 84 HP | 130 HP | 123 HP | 130 HP | 123 HP | 155 HP | 168 HP | |
| ENGINE CUBIC IN. DISPL. (LITERS) | 181 (3) | 181 (3) | 181 (3) | 181 (3) | 181 (3) | 181 (3) | 262 (4) | 262 (4) | 350 (5.7) | 350 (5.7) | 350 (5.7) | 350 (5.7) | 494 (8) | 494 (8) | 494 (8) | 494 (8) | 494 (8) | 494 (8) | |
| ENGINE CYLINDERS | 4 | 4 | 4 | 4 | 4 | 4 | 6 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | |
| ENGINE LUBRICATION | ALL MODELS: FULL PRESSURE OIL LUBRICATION WITH ADDITIONAL SPIN-ON REPLACEMENT OIL FILTER | | | | | | | | | | | | | | | | | | |
| FUEL USE @ 100% LOAD FT ³ /HR(M ³ /HR) | 88(2.5) | 219(6.2) | 98(3) | 245(7) | 170(4.8) | 424(12.0) | 208(5.9) | 452(12.8) | 240(6.8) | 551(15.6) | 304(8.6) | 692(19.6) | 396(11.2) | 1063(30.1) | 420(11.9) | 1059(30.0) | 569(16.1) | 1564(44.3) | |
| FUEL USE @ 75% LOAD FT ³ /HR(M ³ /HR) | 71(2.0) | 177(5.0) | 71(2.1) | 177(5) | 137(3.9) | 338(9.6) | 162(4.6) | 350(9.9) | 187(5.3) | 477(13.5) | 240(6.8) | 597(16.9) | 318(9.0) | 830(23.5) | 325(9.2) | 819(23.2) | 470(13.3) | 1240(35.1) | |
| ENGINE ALTERNATOR OUTPUT | ALL MODELS : 70 AMPS FOR CHARGING WITH MAXIMUM AMPERAGE OUTPUT @ 12 VOLTS DC | | | | | | | | | | | | | | | | | | |
| dB(A) @ 7 M, OPEN NO/FULL LOAD | 70/73 | | 71/74 | | 72/74 | | 74/76 | | 76/78 | | 77/79 | | 80/82 | | 82/84 | | 86/88 | | |
| dB(A) @ 7 M, STD. ENCL. NO/FULL LOAD | 68/69 | | 68/69 | | 68/69 | | 69/70 | | 70/72 | | 71/73 | | 76/79 | | 78/81 | | 82/84 | | |
| dB(A) @ 7 M, S.S. ENCL. NO/FULL LOAD | 63/65 | | 63/65 | | 64/65 | | 65/66 | | 66/68 | | 67/69 | | 69/72 | | 72/74 | | 76/78 | | |
| GENERATOR REGULATION | ALL MODELS : PLUS-MINUS ½% VOLTAGE REGULATION USING SOLID STATE EXTERNAL VOLTAGE REGULATOR | | | | | | | | | | | | | | | | | | |
| FREQUENCY (SPEED) REGULATION | ALL MODELS : PLUS-MINUS ½% FREQUENCY REGULATION WITH ELECTRONIC GOVERNOR SYSTEM | | | | | | | | | | | | | | | | | | |
| ENGINE COOLING | ALL MODELS : LIQUID COOLED WITH PUSHER FAN AND 125°F RADIATOR | | | | | | | | | | | | | | | | | | |
| "SENTINEL-SCOUT" ENGINE AUTO START-STOP AND PROTECTION MODULE. | THIS FLEXIBLE DIGITAL CONTROLLER ALLOWS PROGRAMMING TO BASIC ENGINE FUNCTIONS, IN THE FIELD. CONTROLLER HAS "STOP-MANUAL-AUTO" MODE AND EIGHT (8) BASIC ENGINE PROTECTORS AND FUNCTIONS, MONITORED BY LED INDICATORS : LOW OIL, HIGH TEMPERATURE, OVERSPEED, UNDERSPEED, FAIL TO START, BATTERY CHARGE FAIL AND (2) AUXILIARY LED OUTPUTS. THE CONTROLLER ALSO INCLUDES AN ENGINE HOUR METER WITH LCD DISPLAY. | | | | | | | | | | | | | | | | | | |
| "KLEEN-POWER"® | ALL MODELS : SAFE, CLEAN POWER WITH ONLY 3.5% THD DISTORTION ON GENERATED SINE WAVE | | | | | | | | | | | | | | | | | | |
| CODE G, MOTOR STARTING @ 35% VAC DIP * | 6 HP | 6 HP | 7.5 HP | 7.5 HP | 10 HP | 10 HP | 15 HP | 15 HP | 18 HP | 18 HP | 20 HP | 20 HP | 30 HP | 30 HP | 35 HP | 35 HP | 40 HP | 40 HP | |
| RECOMMENDED BATTERY @ 0°F * | 12 VDC, 660 CCA, 55 AMP/HR | | | | | | | | 12 VDC, 750 CCA, 70 AMP/HR | | | | | | | | | | |
| WEATHER/SOUND ENCLOSURE | ALL STEEL HOUSING WITH RICH ZINC PRIMER PLUS "SUPER-DURABLE" POWDER COAT FINISH AND FULL FOAM SOUND INSULATION | | | | | | | | | | | | | | | | | | |
| APPRX. LG X WI X HI W/ SUPER-SILENT | 96" X 36" X 47" | | | | | | 110" X 42" X 53" | | | | | | 128" X 48" X 68" | | | | 138" X 48" X 68" | | |
| APPRX. LG X WI X HI W/ STD. ENCL. | 82" X 36" X 47" | | | | | | 94" X 42" X 53" | | | | | | 108" X 48" X 68" | | | | 118" X 48" X 68" | | |
| APPRX. LG X WI X HI NO ENCLOSURE | 68" X 36" X 34" | | | | | | 78" X 42" X 38" | | | | | | 88" X 48" X 40" | | | | 98" X 48" X 46" | | |
| SUPER-SILENT (NET WT.) SHIP WT LBS | (1300) | 1400 | (1495) | 1595 | (1530) | 1630 | (2062) | 2212 | (2421) | 2571 | (2446) | 2596 | (2850) | 3075 | (2950) | 3175 | (3235) | 3460 | |
| STD. ENCL. (NET WT.) SHIP WT LBS | (1135) | 1235 | (1310) | 1410 | (1345) | 1445 | (1872) | 2022 | (2231) | 2383 | (2256) | 2406 | (2600) | 2625 | (2700) | 2925 | (2985) | 3210 | |
| OPEN SET (NET WT.) SHIP WT. LBS | (975) | 1075 | (1010) | 1110 | (1220) | 1120 | (1472) | 1622 | (1906) | 2056 | (1931) | 2081 | (2175) | 2400 | (2275) | 2500 | (2560) | 2785 | |

NOTES : STARTING BATTERY IS NOT FURNISHED WITH THESE SENTRY-PRO GENERATORS AT MIN. OF 0°F (17.8°C) AMBIENT TEMPERATURE. FUEL RATINGS BASED ON 1000 BTU/FT³ FOR NATURAL GAS, 2500 BTU/FT³ FOR LPG, AT STANDBY RATING. ELECTRIC MOTOR STARTING POWER IS BASED ON THE RATIO OF APPROXIMATELY 1/2 MOTOR HP PER 1 KW OF GENERATOR MAXIMUM POWER OUTPUT.