

Output Rating

| Generator Model | YC24S | YC35S | YC50S |
|------------------------|---------|---------|-------|
| Prime Out Put (Kw/KVA) | 22/27.5 | 32/40 | 45/56 |
| Standby Outout(Kw/KVA) | 24/30 | 35.2/44 | 50/62 |

Rating Def nitions

Standby

These ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings. The alternator on this model is peak continuous rated (as defined in ISO 8528-3).

Prime

These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.

Voltage : 400 V
 Freequency : 50 Hz
 Power Factor : 0.8
 Phase : 3Ph 4Wr

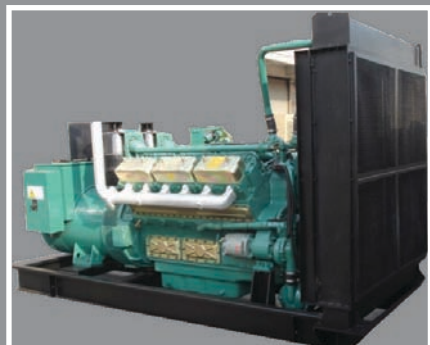
Technical Data

| | | | |
|--|--------------------|----------------|----------------|
| Engine Make - Cummins / Model | 4B3.9-G2 | 4BT3.9-G2 | 4BTA3.9-G2 |
| Alternator - Marathon / Model | GM-24-4 | GM-32-4 | MP-48-4 |
| No. of cylinders/Alignment | 4 Cyl/ In-line | 4 Cyl/ In-line | 4 Cyl/ In-line |
| Displacement Ltr | 3.9L | 3.9 L | 3.9 L |
| Aspiration N/A or Turbo | N/A | Turbo charger | Turbo charger |
| Bore & Stroke mm | 102*120 | 102*120 | 102*120 |
| Compression Ratio | 16.5 : 1 | 16.5 : 1 | 16.5:1 |
| Induction | Electrical | Electrical | Electrical |
| Frequency | 50 Hz | | |
| Engine Speed | 1500 rpm | | |
| Gross Engine Power -kw | 29KW | 40KW | 55 KW |
| BMEP kpa (psi) | 340(49) | 387(56) | 406(59) |
| Piston Speed m/Sec | 6.0 | 6.0 | 7.2 |
| Fuel Tank Capacity -L | 100 | 120 | 200 |
| Fuel Consumption - Prime L/hr | 6.7 | 9.3 | 13.1 |
| Fuel Consumption - Standby l/hr | 7.5 | 10.3 | 14.7 |
| Heat Rejected to Exhaust System -Kw | 14 | 20 | 29 |
| Heat Rejected to Water & Lube Oil - Kw | 19.5 | 25.9 | 41 |
| Radiator Cooling | Closed watercooled | | |
| Air Flow m3/min | 136 | 146 | 158 |
| Combustion Air Flow m3/min | 2 | 2.69 | 5.9 |
| Exhaust Gas Flow m3/min | 4.27 | 6.35 | 14.8 |

Dimensions & Weights

| | | | |
|-----------------|-------|-------|-------|
| Generator Model | YC24S | YC35S | YC50S |
| Length (mm) | 2700 | 2700 | 2800 |
| Width (mm) | 1000 | 1000 | 1050 |
| Height (mm) | 1500 | 1500 | 1600 |
| Dry Weight (kg) | 1250 | 1270 | 1550 |

Technical specifications are subject to change without prior notice



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YC24S/YC35S/YC50S-A

Output Rating

| Generator Model | YC70S | YC88S | YC110S |
|------------------------|---------|--------|-----------|
| Prime Out Put (Kw/KVA) | 64/80 | 80/100 | 100/125 |
| Standby Outout(Kw/KVA) | 70.4/88 | 88/110 | 110/137.5 |

Rating Defi nitions

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Prime

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Voltage : 400 V
 Freequency : 50 Hz
 Power Factor : 0.8
 Phase : 3Ph 4Wr

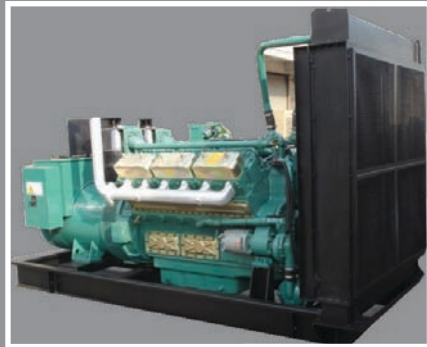
Technical Data

| | | | |
|--|--------------------|----------------|----------------|
| Engine Make - Cummins / Model | 6BT5.9-G1 | 6BT5.9-G2 | 6BTA5.9-G2 |
| Alternator - Marathon / Model | MP-64-4 | MP-80-4 | MP-104-4 |
| No. of cylinders/Alignment | 6 Cyl/ In-line | 6 Cyl/ In-line | 6 Cyl/ In-line |
| Displacement Ltr | 5.9 L | 5.9 L | 5.9 L |
| Aspiration N/A or Turbo | Turbo charger | Turbo charger | Turbo charger |
| Bore & Stroke mm | 102*120 | 102*120 | 102*120 |
| Compression Ratio | 17.5:1 | 17.5:1 | 17.3:1 |
| Induction | Mechanical | Electrical | Electrical |
| Frequency | 50 Hz | | |
| Engine Speed | 1500 rpm | | |
| Gross Engine Power -kw | 92 KW | 92 KW | 120 KW |
| BMEP kpa (psi) | 650(95) | 650(95) | 724(105) |
| Piston Speed m/Sec | 6.0 | 6.0 | 6.0 |
| Fuel Tank Capacity -L | 300 | 300 | 360 |
| Fuel Consumption - Prime L/hr | 22 | 22 | 27 |
| Fuel Consumption - Standby l/hr | 25 | 25 | 30 |
| Heat Rejected to Exhaust System -Kw | 62 | 62 | 59 |
| Heat Rejected to Water & Lube Oil - Kw | 69 | 69 | 82 |
| Radiator Cooling | Closed watercooled | | |
| Air Flow m3/min | 158 | 158 | 190 |
| Combustion Air Flow m3/min | 6.48 | 6.48 | 8.2 |
| Exhaust Gas Flow m3/min | 16.8 | 16.8 | 17.6 |

Dimensions & Weights

| Generator Model | YC70S | YC88S | YC110S |
|-----------------|-------|-------|--------|
| Length (mm) | 2900 | 2900 | 3200 |
| Width (mm) | 1080 | 1080 | 1100 |
| Height (mm) | 1700 | 1700 | 1800 |
| Dry Weight (kg) | 1750 | 1800 | 1950 |

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Output Rating

| Generator Model | YC120S | YC154S | YC176S |
|------------------------|-----------|-----------|---------|
| Prime Out Put (Kw/KVA) | 110/137.5 | 140/175 | 160/200 |
| Standby Outout(Kw/KVA) | 120/150 | 154/192.5 | 176/220 |

Rating Defi nitions

Standby

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Prime

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 Freequency : 50 Hz
 Power Factor : 0.8
 Phase : 3Ph 4Wr

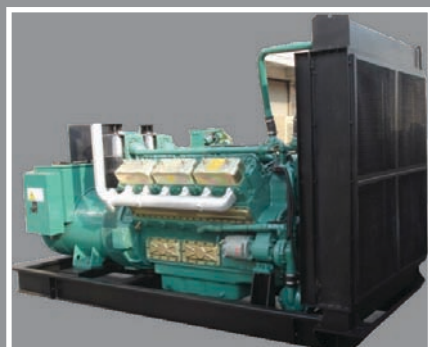
Technical Data

| Engine Make - Cummins / Model | 6BTA5.9-G2 | 6CTA8.3-G2 | 6CTAA8.3-G2 |
|--|--------------------|----------------|----------------|
| Alternator - Marathon / Model | MP-120-4 | MP-140-4 | MP-160-4 |
| No. of cylinders/Alignment | 6 Cyl/ In-line | 6 Cyl/ In-line | 6 Cyl/ In-line |
| Displacement Ltr | 5.9 L | 8.3 L | 8.3 L |
| Aspiration N/A or Turbo | Turbo charger | Turbo charger | Turbo charger |
| Bore & Stroke mm | 102*120 | 114*135 | 114*135 |
| Compression Ratio | 17.3:1 | 17.3:1 | 18:01 |
| Induction | Electrical | Electrical | Electrical |
| Frequency | 50 Hz | | |
| Engine Speed | 1500 rpm | | |
| Gross Engine Power -kw | 130 KW | 180 KW | 203 KW |
| BMEP kpa (psi) | 754(109) | 1044(152) | 1178(171) |
| Piston Speed m/Sec | 6.0 | 6.8 | 6.8 |
| Fuel Tank Capacity -L | 420 | 550 | 610 |
| Fuel Consumption - Prime L/hr | 30 | 40 | 45.4 |
| Fuel Consumption - Standby l/hr | 34 | 45 | 51.4 |
| Heat Rejected to Exhaust System -Kw | 74 | 88 | 83 |
| Heat Rejected to Water & Lube Oil - Kw | 102 | 100 | 144 |
| Radiator Cooling | Closed watercooled | | |
| Air Flow m3/min | 190 | 238 | 300 |
| Combustion Air Flow m3/min | 8.7 | 12.4 | 11.2 |
| Exhaust Gas Flow m3/min | 19.44 | 34.7 | 29.1 |

Dimensions & Weights

| Generator Model | YC120S | YC154S | YC176S |
|-----------------|--------|--------|--------|
| Length (mm) | 3200 | 3500 | 3900 |
| Width (mm) | 1100 | 1150 | 1150 |
| Height (mm) | 1800 | 1900 | 1900 |
| Dry Weight (kg) | 2000 | 2500 | 2750 |

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Output Rating

| Generator Model | YC220S | YC240S | YC264S |
|------------------------|---------|---------|---------|
| Prime Out Put (Kw/KVA) | 200/250 | 220/275 | 240/300 |
| Standby Outout(Kw/KVA) | 220/275 | 240/300 | 264/330 |

Rating Defi nitions

Standby

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Prime

These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.

Voltage : 400 V
 Freequency : 50 Hz
 Power Factor : 0.8
 Phase : 3Ph 4Wr

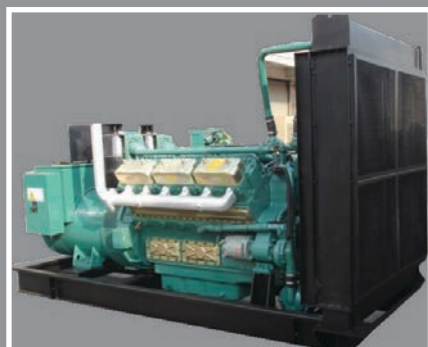
Technical Data

| | | | |
|--|--------------------|----------------|----------------|
| Engine Make - Cummins / Model | 6LTAA8.9-G2 | NTA855-G1 | NTA855-G1A |
| Alternator - Marathon / Model | MP-200-4 | MP-230-4 | MP-240-4 |
| No. of cylinders/Alignment | 6 Cyl/ In-line | 6 Cyl/ In-line | 6 Cyl/ In-line |
| Displacement Ltr | 8.9 L | 11 L | 14 L |
| Aspiration N/A or Turbo | Turbo charger | Turbo charger | Turbo charger |
| Bore & Stroke mm | 114*135 | 140*152 | 140*152 |
| Compression Ratio | 16.6:1 | 15:01 | 14.5:1 |
| Induction | Electrical | Electrical | Electrical |
| Frequency | 50 Hz | | |
| Engine Speed | 1500 rpm | | |
| Gross Engine Power -kw | 240 KW | 265 KW | 291 KW |
| BMEP kpa (psi) | 1392(202) | 1371(199) | 1491(216) |
| Piston Speed m/Sec | 7.25 | 7.6 | 7.62 |
| Fuel Tank Capacity -L | 650 | 650 | 650 |
| Fuel Consumption - Prime L/hr | 53 | 53.4 | 61.3 |
| Fuel Consumption - Standby I/hr | 58 | 58.4 | 68.3 |
| Heat Rejected to Exhaust System -Kw | 125 | 150 | 163 |
| Heat Rejected to Water & Lube Oil - Kw | 167 | 180 | 196 |
| Radiator Cooling | Closed watercooled | | |
| Air Flow m3/min | 326 | 420 | 420 |
| Combustion Air Flow m3/min | 13 | 21 | 21 |
| Exhaust Gas Flow m3/min | 35 | 49.6 | 49.6 |

Dimensions & Weights

| | | | |
|-----------------|--------|--------|--------|
| Generator Model | YC220S | YC240S | YC176S |
| Length (mm) | 4100 | 4100 | 4200 |
| Width (mm) | 1300 | 1300 | 1350 |
| Height (mm) | 1900 | 1900 | 1900 |
| Dry Weight (kg) | 3150 | 3300 | 3750 |

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Output Rating

| Generator Model | YC284S | YC310S | YC330S |
|------------------------|---------|---------|---------|
| Prime Out Put (Kw/KVA) | 260/325 | 280/350 | 300/375 |
| Standby Outout(Kw/KVA) | 284/355 | 310/388 | 330/413 |

Rating Defi nitions

Standby

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Prime

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Voltage : 400 V
 Freequency : 50 Hz
 Power Factor : 0.8
 Phase : 3Ph 4Wr

Technical Data

| | | | |
|--|--------------------|----------------|----------------|
| Engine Make - Cummins / Model | NTA855-G1B | NTA855-G2A | NTAA855-G7 |
| Alternator - Marathon / Model | MP-260-4 | MP-280-4 | MP-300-4 |
| No. of cylinders/Alignment | 6 Cyl/ In-line | 6 Cyl/ In-line | 4 Cyl/ In-line |
| Displacement Ltr | 14 L | 14 L | 14 L |
| Aspiration N/A or Turbo | Turbo charger | Turbo charger | Turbo charger |
| Bore & Stroke mm | 140*152 | 140*152 | 140*152 |
| Compression Ratio | 14.0:1 | 13.9:1 | 14.0:1 |
| Induction | Electrical | Electrical | Electrical |
| Frequency | 50 Hz | | |
| Engine Speed | 1500 rpm | | |
| Gross Engine Power -kw | 321 KW | 343 KW | 377 KW |
| BMEP kpa (psi) | 1623(235) | 1771(257) | 1960(284) |
| Piston Speed m/Sec | 7.62 | 7.62 | 7.62 |
| Fuel Tank Capacity -L | 650 | 650 | 800 |
| Fuel Consumption - Prime L/hr | 71.4 | 71.9 | 85.4 |
| Fuel Consumption - Standby l/hr | 80.7 | 79.5 | 94 |
| Heat Rejected to Exhaust System -Kw | 172 | 194 | 214 |
| Heat Rejected to Water & Lube Oil - Kw | 206 | 233 | 257 |
| Radiator Cooling | Closed watercooled | | |
| Air Flow m3/min | 435 | 490.8 | 490.8 |
| Combustion Air Flow m3/min | 21.2 | 25.5 | 30.6 |
| Exhaust Gas Flow m3/min | 54.5 | 67.6 | 69 |

Dimensions & Weights

| Generator Model | YC284S | YC310S | YC330S |
|-----------------|--------|--------|--------|
| Length (mm) | 4200 | 4250 | 4250 |
| Width (mm) | 1350 | 1400 | 1450 |
| Height (mm) | 1900 | 1950 | 2000 |
| Dry Weight (kg) | 3900 | 4200 | 4500 |

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Output Rating

| Generator Model | YC360SB | YC400S | YC450S |
|------------------------|-----------|---------|---------|
| Prime Out Put (Kw/KVA) | 330/412.5 | 360/450 | 400/500 |
| Standby Outout(Kw/KVA) | 360/450 | 400/500 | 450/563 |

Rating Defi nitions

Standby

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Prime

These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.

Voltage : 400 V
 Freequency : 50 Hz
 Power Factor : 0.8
 Phase : 3Ph 4Wr

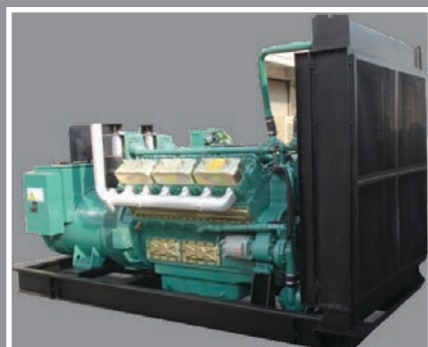
Technical Data

| Engine Make - Cummins / Model | NTAA855-G7A | KTA19-G3 | KTA19-G4 |
|--|--------------------|----------------|----------------|
| Alternator - Marathon / Model | MP-350-4A/S | MP-400-4A/S | MP-400-4A/S |
| No. of cylinders/Alignment | 4 Cyl/ In-line | 6 Cyl/ In-line | 6 Cyl/ In-line |
| Displacement Ltr | 14 L | 18.9 L | 18.9 L |
| Aspiration N/A or Turbo | Turbo charger | Turbo charger | Turbo charger |
| Bore & Stroke mm | 140*152 | 159*159 | 159*159 |
| Compression Ratio | 14.0:1 | 13.9:1 | 13.5:1 |
| Induction | Electrical | Electrical | Electrical |
| Frequency | 50 Hz | | |
| Engine Speed | 1500 rpm | | |
| Gross Engine Power -kw | 407 | 448 KW | 504 KW |
| BMEP kpa (psi) | 2115(306) | 1710(248) | 1896(275) |
| Piston Speed m/Sec | 32.9 | 7.9 | 7.9 |
| Fuel Tank Capacity -L | 800 | 850 | 880 |
| Fuel Consumption - Prime L/hr | 85.4 | 97 | 107 |
| Fuel Consumption - Standby l/hr | 94 | 107 | 121 |
| Heat Rejected to Exhaust System -Kw | 231 | 263 | 319 |
| Heat Rejected to Water & Lube Oil - Kw | 277 | 247 | 240 |
| Radiator Cooling | Closed watercooled | | |
| Air Flow m3/min | 540 | 588 | 588 |
| Combustion Air Flow m3/min | 32 | 32 | 35 |
| Exhaust Gas Flow m3/min | 75 | 89.4 | 92.4 |

Dimensions & Weights

| Generator Model | YC360SB | YC400S | YC450S |
|-----------------|---------|--------|--------|
| Length (mm) | 4300 | 4800 | 4800 |
| Width (mm) | 1500 | 1700 | 1700 |
| Height (mm) | 2000 | 2100 | 2100 |
| Dry Weight (kg) | 4900 | 6000 | 6300 |

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Output Rating

| Generator Model | YC505S | YC520S | YC550SB |
|------------------------|-----------|---------|---------|
| Prime Out Put (Kw/KVA) | 450/562.5 | 480/600 | 500/625 |
| Standby Outout(Kw/KVA) | 505/631 | 520/650 | 550/688 |

Rating Defi nitions

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 Phase : 3Ph 4Wr

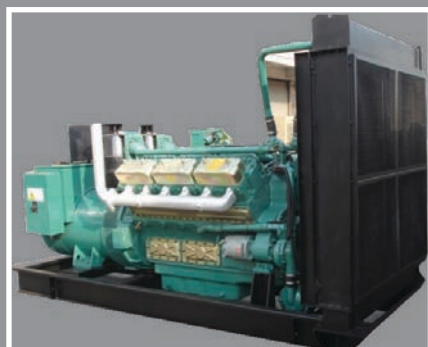
Technical Data

| | | | |
|--|--------------------|----------------|----------------|
| Engine Make - Cummins / Model | KTAA19-G5 | KTAA19-G6 | KTAA19-G6A |
| Alternator - Marathon / Model | MP-480-4A/S | MP-480-4A/S | MP-500-4A/S |
| No. of cylinders/Alignment | 6 Cyl/ In-line | 6 Cyl/ In-line | 6 Cyl/ In-line |
| Displacement Ltr | 18.9 L | 18.9 L | 18.9 L |
| Aspiration N/A or Turbo | Turbo charger | Turbo charger | Turbo charger |
| Bore & Stroke mm | 159*159 | 159*159 | 159*159 |
| Compression Ratio | 13.5:1 | 13.5:1 | 13.0:1 |
| Induction | Electrical | Electrical | Electrical |
| Frequency | 50 Hz | | |
| Engine Speed | 1500 rpm | | |
| Gross Engine Power -kw | 555 KW | 570 KW | 610 KW |
| BMEP kpa (psi) | 1989(289) | 2185(317) | 2335(338) |
| Piston Speed m/Sec | 7.9 | 7.9 | 7.9 |
| Fuel Tank Capacity -L | 900 | 900 | 950 |
| Fuel Consumption - Prime L/hr | 108 | 116 | 127.8 |
| Fuel Consumption - Standby l/hr | 125 | 135 | 149 |
| Heat Rejected to Exhaust System -Kw | 345 | 366 | 384 |
| Heat Rejected to Water & Lube Oil - Kw | 246 | 252 | 270 |
| Radiator Cooling | Closed watercooled | | |
| Air Flow m3/min | 648 | 630 | 648 |
| Combustion Air Flow m3/min | 41.5 | 42 | 45 |
| Exhaust Gas Flow m3/min | 112 | 118 | 123.4 |

Dimensions & Weights

| | | | |
|-----------------|--------|--------|---------|
| Generator Model | YC505S | YC520S | YC550SB |
| Length (mm) | 5000 | 5100 | 5100 |
| Width (mm) | 1900 | 2000 | 2000 |
| Height (mm) | 2100 | 2200 | 2200 |
| Dry Weight (kg) | 6400 | 6500 | 6500 |

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Output Rating

| Generator Model | YC660S | YC710S | YC814S |
|------------------------|---------|---------|------------|
| Prime Out Put (Kw/KVA) | 600/750 | 640/800 | 740/925 |
| Standby Outout(Kw/KVA) | 660/825 | 710/888 | 814/1017.5 |

Rating Def nitions

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 Phase : 3Ph 4Wr

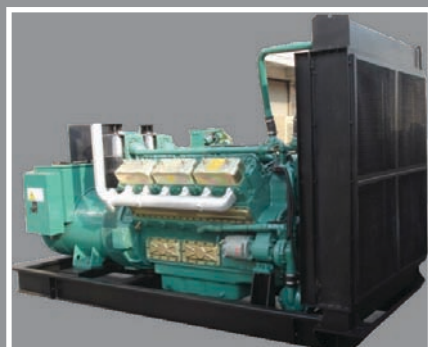
Technical Data

| | | | |
|--|--------------------|---------------|---------------|
| Engine Make - Cummins / Model | KTA38-G2 | KTA38-G2B | KTA38-G2A |
| Alternator - Marathon / Model | MX-600-4 | MX-700-4 | MX-750-4 |
| No. of cylinders/Alignment | 12 Cyl/ Vee | 12 Cyl/ Vee | 12 Cyl/ Vee |
| Displacement Ltr | 37.8 L | 37.8 L | 37.8 L |
| Aspiration N/A or Turbo | Turbo charger | Turbo charger | Turbo charger |
| Bore & Stroke mm | 159*159 | 159*159 | 159*159 |
| Compression Ratio | 14.5:1 | 14.5:1 | 14.5:1 |
| Induction | Electrical | Electrical | Electrical |
| Frequency | 50 Hz | | |
| Engine Speed | 1500 rpm | | |
| Gross Engine Power -kw | 731 KW | 789 KW | 895 KW |
| BMEP kpa (psi) | 1407 (204) | 1663 (241) | 1713(249) |
| Piston Speed m/Sec | 7.9 | 7.9 | 7.9 |
| Fuel Tank Capacity -L | 1300 | 1300 | 1300 |
| Fuel Consumption - Prime L/hr | 167 | 181 | 191 |
| Fuel Consumption - Standby l/hr | 184 | 205 | 215 |
| Heat Rejected to Exhaust System -Kw | 511 | 624 | 681 |
| Heat Rejected to Water & Lube Oil - Kw | 407 | 475 | 549 |
| Radiator Cooling | Closed watercooled | | |
| Air Flow m3/min | 1826 | 1826 | 1826 |
| Combustion Air Flow m3/min | 55.2 | 62.4 | 67.6 |
| Exhaust Gas Flow m3/min | 158.6 | 175 | 193.5 |

Dimensions & Weights

| Generator Model | YC660S | YC710S | YC814S |
|-----------------|--------|--------|--------|
| Length (mm) | 6058 | 6058 | 6058 |
| Width (mm) | 2438 | 2438 | 2438 |
| Height (mm) | 2591 | 2591 | 2591 |
| Dry Weight (kg) | 11200 | 11200 | 11600 |

Technical specifications are subject to change without prior notice



TL POWER ENGINEERING

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Output Rating

| Generator Model | YC912S | YC1000SB | YC1100SB |
|------------------------|----------|-----------|-----------|
| Prime Out Put (Kw/KVA) | 824/1030 | 900/1125 | 1000/1250 |
| Standby Outout(Kw/KVA) | 912/1140 | 1000/1250 | 1100/1375 |

Rating Defi nitions

Standby

These ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings. The alternator on this model is peak continuous rated (as defined in ISO 8528-3).

Prime

These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.

Voltage : 400 V
 Freequency : 50 Hz
 Power Factor : 0.8
 Phase : 3Ph 4Wr

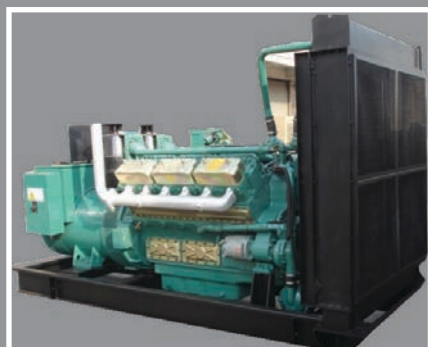
Technical Data

| | | | |
|--|--------------------|---------------|---------------|
| Engine Make - Cummins / Model | KTA38-G5 | KTA38-G9 | KTA38-G9A |
| Alternator - Marathon / Model | MX-850-4 | MX-1030-4 | MX-1030-4 |
| No. of cylinders/Alignment | 12 Cyl/ Vee | 12 Cyl/ Vee | 12 Cyl/ Vee |
| Displacement Ltr | 37.8 L | 37.8 L | 37.8 L |
| Aspiration N/A or Turbo | Turbo charger | Turbo charger | Turbo charger |
| Bore & Stroke mm | 159*159 | 159*159 | 159*159 |
| Compression Ratio | 13.9:1 | 13.9:1 | 13:01 |
| Induction | Electrical | Electrical | Electrical |
| Frequency | 50 Hz | | |
| Engine Speed | 1500 rpm | | |
| Gross Engine Power -kw | 970 KW | 1090KW | 1195 KW |
| BMEP kpa (psi) | 1868 (271) | 2296(333) | 2456(356) |
| Piston Speed m/Sec | 7.9 | 7.9 | 7.9 |
| Fuel Tank Capacity -L | 1300 | 2000 | 2000 |
| Fuel Consumption - Prime L/hr | 209 | 274 | 274 |
| Fuel Consumption - Standby l/hr | 228 | 300 | 300 |
| Heat Rejected to Exhaust System -Kw | 544 | 592 | 550 |
| Heat Rejected to Water & Lube Oil - Kw | 539 | 611 | 702 |
| Radiator Cooling | Closed watercooled | | |
| Air Flow m3/min | 1826 | 1826 | 1826 |
| Combustion Air Flow m3/min | 72.8 | 78.5 | 87.2 |
| Exhaust Gas Flow m3/min | 198.4 | 212.4 | 230 |

Dimensions & Weights

| | | | |
|-----------------|--------|----------|----------|
| Generator Model | YC912S | YC1000SB | YC1100SB |
| Length (mm) | 6058 | 6058 | 6058 |
| Width (mm) | 2438 | 2438 | 2438 |
| Height (mm) | 2591 | 2591 | 2591 |
| Dry Weight (kg) | 12400 | 13000 | 13500 |

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Output Rating

| Generator Model | YC1120S | YC1300S |
|------------------------|-------------|-----------|
| Prime Out Put (Kw/KVA) | 1030/1287.5 | 1160/1450 |
| Standby Outout(Kw/KVA) | 1120/1400 | 1300/1625 |

Rating Defi nitions

Standby

These ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings. The alternator on this model is peak continuous rated (as defined in ISO 8528-3).

Prime

These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.

Voltage : 400 V
 Freequency : 50 Hz
 Power Factor : 0.8
 Phase : 3Ph 4Wr

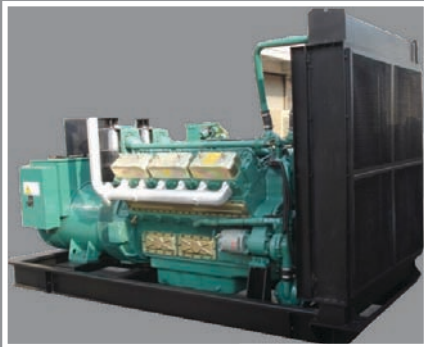
Technical Data

| | | |
|--|--------------------|---------------|
| Engine Make - Cummins / Model | KTA50-G3 | KTA50-G8 |
| Alternator - Marathon / Model | MX-1030-4 | MX-1240-4 |
| No. of cylinders/Alignment | 12 Cyl/ Vee | 12 Cyl/ Vee |
| Displacement Ltr | 50.3 L | 50.3 L |
| Aspiration N/A or Turbo | Turbo charger | Turbo charger |
| Bore & Stroke mm | 159*159 | 159*159 |
| Compression Ratio | 13.9:1 | 14.9:1 |
| Induction | Electrical | Electrical |
| Frequency | 50 Hz | |
| Engine Speed | 1500 rpm | |
| Gross Engine Power -kw | 1227 KW | 1429 KW |
| BMEP kpa (psi) | 1744(253) | 1910(277) |
| Piston Speed m/Sec | 7.9 | 7.9 |
| Fuel Tank Capacity -L | 2500 | 2500 |
| Fuel Consumption - Prime L/hr | 254 | 289 |
| Fuel Consumption - Standby l/hr | 282 | 345 |
| Heat Rejected to Exhaust System -Kw | 654 | 800 |
| Heat Rejected to Water & Lube Oil - Kw | 646 | 812 |
| Radiator Cooling | Closed watercooled | |
| Air Flow m3/min | 2640 | 2640 |
| Combustion Air Flow m3/min | 98.6 | 99.5 |
| Exhaust Gas Flow m3/min | 272 | 261 |

Dimensions & Weights

| | | |
|-----------------|---------|---------|
| Generator Model | YC1120S | YC1300S |
| Length (mm) | 12190 | 12190 |
| Width (mm) | 2438 | 2438 |
| Height (mm) | 2591 | 2591 |
| Dry Weight (kg) | 16800 | 17200 |

Technical specifications are subject to change without prior notice



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TL Power Genset Range

| Genset Model | Output Power / 400V50 HZ | | | | Engine Model | Dimension LxWxH (mm) | Fuel Tank (Liter) | Dry Weight (kg) |
|--------------|--------------------------|--------|-------|--------|--------------|----------------------|-------------------|-----------------|
| | Stand by | | Prime | | | | | |
| | Kw | KVA | Kw | KVA | | | | |
| YC24S | 24 | 30 | 22 | 27.5 | 4B3.9-G2 | 2700x1000x1500 | 100 | 1250 |
| YC35S | 35.2 | 44 | 32 | 40 | 4BT3.9-G2 | 2700x1000x1500 | 120 | 1270 |
| YC50S | 50 | 62.5 | 45 | 56 | 4BTA3.9-G2 | 2800x1050x1600 | 200 | 1550 |
| YC70S | 70.4 | 88 | 64 | 80 | 6BT5.9-G1 | 2900x1080x1700 | 300 | 1750 |
| YC88S | 88 | 110 | 80 | 100 | 6BT5.9-G2 | 2900x1080x1700 | 300 | 1800 |
| YC110S | 110 | 137.5 | 100 | 125 | 6BTA5.9-G2 | 3200x1100x1800 | 360 | 1950 |
| YC120S | 120 | 150 | 110 | 137.5 | 6BTAA5.9-G2 | 3200x1100x1800 | 420 | 2000 |
| YC154S | 154 | 192.5 | 140 | 175 | 6CTA8.3-G2 | 3500x1150x1900 | 550 | 2500 |
| YC176S | 176 | 220 | 160 | 200 | 6CTAA8.3-G2 | 3900x1150x1900 | 610 | 2750 |
| YC220S | 220 | 275 | 200 | 250 | 6LTAA8.9-G2 | 4100x1300x1900 | 650 | 3150 |
| YC240S | 240 | 300 | 220 | 275 | NTA855-G1 | 4100x1300x1900 | 650 | 3300 |
| YC264S | 264 | 330 | 240 | 300 | NTA855-G1A | 4200x1350x1900 | 650 | 3750 |
| YC284S | 284 | 355 | 260 | 325 | NTA855-G1B | 4200x1350x1900 | 650 | 3900 |
| YC310S | 310 | 388 | 280 | 350 | NTA855-G2A | 4250x1400x1950 | 650 | 4300 |
| YC330S | 330 | 413 | 300 | 375 | NTAA855-G7 | 4250x1450x2000 | 800 | 4500 |
| YC360SB | 360 | 450 | 330 | 412.5 | NTAA855-G7A | 4300x1500x2000 | 800 | 4900 |
| YC400S | 400 | 500 | 360 | 450 | KTA19-G3 | 4800x1700x2100 | 850 | 6000 |
| YC450S | 450 | 563 | 400 | 500 | KTA19-G4 | 4800x1700x2101 | 880 | 6300 |
| YC505S | 505 | 631 | 450 | 562.5 | KTAA19-G5 | 5000x1900x2100 | 900 | 6400 |
| YC520S | 520 | 650 | 480 | 600 | KTAA19-G6 | 5100x2000x2200 | 900 | 6500 |
| YC550SB | 550 | 688 | 500 | 625 | KTAA19-G6A | 5100x2000x2200 | 950 | 6500 |
| YC660S | 660 | 825 | 600 | 750 | KTA38-G2 | 6058x2438x2591 | 1300 | 11200 |
| YC710S | 710 | 888 | 640 | 800 | KTA38-G2B | 6058x2438x2591 | 1300 | 11200 |
| YC814S | 814 | 1017.5 | 740 | 925 | KTA38-G2A | 6058x2438x2591 | 1300 | 11600 |
| YC912S | 912 | 1140 | 824 | 1030 | KTA38-G5 | 6058x2438x2591 | 1300 | 12400 |
| YC1000SB | 1000 | 1250 | 900 | 1125 | KTA38-G9 | 6058x2438x2591 | 2000 | 13000 |
| YC1100SB | 1100 | 1375 | 1000 | 1250 | KTA38-G9A | 6058x2438x2591 | 2000 | 13500 |
| YC1120S | 1120 | 1400 | 1030 | 1287.5 | KTA50-G3 | 12190x2438x2591 | 2500 | 16800 |
| YC1300S | 1300 | 1625 | 1160 | 1450 | KTA50-G8 | 12190x2438x2591 | 2500 | 17200 |

Technical specifications are subject to change without prior notice

General Features:

- Composed of Cummins strong powerful diesel engine and Marathone or Stanford alternator.
- 24V DC start motor.
- Brushless, Self-excited, IP23, H insulation.
- Engine cooling system: water-cooled.
- Key start panel control system as standard, digital autostart panel is optional.
- 10-hour operation base tank.
- Optional open type or super silent type, ATS and synchronizing/paralleling system.
- All generating sets are gone through rigorous testing before being released to the market place, including 50%, 75%, 100%, 110% load and all protection function (overspeed stop, high water temperature, low oil pressure, battery charging failure, emergency stop).

Optional Parts:

- Coolant heater
- Lubricant Oil heater
- Space heater
- Low fuel level alarm
- Automatic fuel feeding system
- Remote controller
- Auto-paralleling control panel
- Auto Transfer /changeover Switch (ATS)
- Super silent (65-68Db@7m)
- Normal silent (75-78Db@7m)

STANDARD SPECIFICATION - Cummins Powered Generating Set

OUTPUT RATINGS

- Output rating are listed on each generating set single sheet specification. The generating set is normally supplied connected for 380 or 415 Volt, 3 Phase, 50Hz, but alternative voltages/frequencies are available.

ENGINE

- Perkins heavy duty industrial diesel engine. Technical details are contained on the single sheet specification **ASSEMBLY**
- The engine and alternator are close coupled by means of an SAE flange. A full torsional analysis has been carried out to guarantee no harmful vibration will occur. Engine with radiator and alternator are on common spraying powder mounting.
- Anti-vibration pads are affixed between engine alternator feet and the base frame. Thus ensuring complete vibration isolation of the rotating assemblies and enabling the machine to be placed on an uneven surface without any detrimental effects.
- For durability and corrosion resistance, all iron and steel surfaces of canopy fabrications have been treated for coating by grit blast cleaning. Then covered by special three layers painting which provides an excellent corrosion resistant surface.

CONTROL SYSTEM AND PROTECTION

- Controllers are available for all applications. It contains Deep Sea, ComAp or other famous brands. According to their different functions, the control systems can be specified into key start controller model, automatic start control model and PCRC three remote control systems. See controller features inside.

CRITERION

- ISO8528, GB/T2820, ISO3046, BS4999, BS5514, BS5000
- EN12601:2001, EN60034-22:1997, EN60204-1:2006
- ISO9001:2000, ISO14001:2004, SGS, TLC

WARRANTY

- TL Power Company provides Engine and Alternator are warranty for a period of 12 months or 1000 hrs, whichever occurs first.
- Convenience for operation and maintenance, backed by Cummins global service network.

