



Fischer Panda Marine Generators



FischerPanda

Fischer Panda “Perfect Power” iSeries generators with variable speed

Generators with variable speed for reduced fuel consumption, quiet operation and less exhaust emissions. Up to 50 % less weight and 30 % space savings when compared to asynchronous generators of the same class

up to 20 % fuel savings

Panda iSeries marine inverter generators with variable speed technology

- 50 Hz - 230V
 - 50 Hz - 400V
 - 60 Hz - 120V
 - 60 Hz - 230 V
 - 60 Hz - 2 x 120 V / 240 V
- variable speed - load dependent



| Model | | Panda 5000i.Neo PMS | Panda 5000i PMS | Panda 8000i PMS | Panda 10000i PMS | Panda 15000i-230V PMS | Panda 15000i-400V PMS | Panda 19i PMS | Panda 25i-230V PMS | Panda 25i-400V PMS | Panda 45i PMS | Panda 60i PMS |
|---|---|---------------------|-------------------|--------------------|---------------------|-----------------------|-----------------------|-------------------|--------------------|--------------------|----------------|----------------|
| Nominal performance* | 230V 1-phase 50 Hz (also 1-phase 60 Hz) | kW | 0-4,0' | 0-4,0' | 0-6,4' | 0-8,0' | 0-12,0'' | | 0-20,0''' | | 0-36,0''' | |
| | | kVA | 0-5,0' | 0-5,0' | 0-8,0' | 0-10,0' | 0-15,0'' | | 0-25,0''' | | 0-45,0''' | |
| | 400V 3-phase 50 Hz | kW | | | | | | 0-12,0' | | 0-20,0''' | 0-36,0''' | 0-48,0''' |
| | | kVA | | | | | | 0-15,0' | | 0-25,0''' | 0-45,0''' | 0-60,0''' |
| | 230V 1-phase 60 Hz | kW | | | 0-6,0' | 0-8,0' | 0-12,0'' | | 0-14,5''' | 0-20,0''' | | |
| | kVA | | | 0-7,5' | 0-10,0' | 0-15,0'' | | 0-18,1''' | 0-25,0''' | | | |
| 120 V 1-phase 60 Hz (request : 2 x 120 V / 240 V) | kW | 0-4,0' | 0-4,0 | 0-6,0 | 0-8,0 | 0-12,0'' | 0-12,0' | 0-14,5''' | | | | |
| | kVA | 0-5,0' | 0-5,0 | 0-7,5 | 0-10,0 | 0-15,0'' | 0-15,0' | 0-18,1''' | | | | |
| Engine speed | rpm | 2500-3250 | 2400-2800 | 2400-2800 | 2400-2800 | 2200-2800 | 2200-2800 | 2200-3600 | 2200-2800 | 1500-2800 | 1500-2700 | 1500-2800 |
| Voltage tolerance | % | ± 3 % | ± 3 % | ± 3 % | ± 3 % | ± 3 % | ± 3 % | ± 3 % | ± 3 % | ± 3 % | ± 3 % | ± 3 % |
| Frequency | | 50 Hz ± 0,1 Hz | 50 Hz ± 0,1 Hz | 50 Hz ± 0,1 Hz | 50 Hz ± 0,1 Hz | 50 Hz ± 0,1 Hz | 50 Hz ± 0,1 Hz | 50 Hz ± 0,1 Hz | 50 Hz ± 0,1 Hz | 50 Hz ± 0,1 Hz | 50 Hz ± 0,1 Hz | 50 Hz ± 0,1 Hz |
| Control | | iControl | iControl | iControl | iControl | iControl | iControl | iControl | iControl | iControl | iControl | iControl |
| Cooling circuits | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 4 | 4 | 2 | 2 |
| Capsule type | | GFK | GFK | GFK | GFK | GFK | GFK | GFK | GFK | GFK | MPL | MPL |
| Sound insulation | | 3D | 3D | 3D | 3D | 3D | 3D | 3D | 4DS | 4DS | 4DS | 6DS |
| Engine manufacturer | | Fischer Panda | Kubota | Kubota | Kubota | Kubota | Kubota | Kubota | Kubota | Kubota | Kubota | Hatz |
| Engine type | | FPE320 | EA 300 | Z482 | Z602 | D902 | D902 | D902 | V1505 | V1505 | V2403T | 4H50TIC |
| Engine displacement | cm ³ | 309 | 309 | 479 | 599 | 898 | 898 | 898 | 1498 | 1498 | 2434 | 1952 |
| Number of cylinders | | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 4 |
| Sound level 7m / 3m / 1m | dbA | 54 / 64 / 68 | 54 / 64 / 68 | 52 / 62 / 67 | 52 / 62 / 67 | 54 / 64 / 68 | 54 / 64 / 68 | 54 / 64 / 68 | 55 / 60 / 70 | 55 / 60 / 70 | 54 / 59 / 69 | 55 / 60 / 70 |
| Approx. capsule dimensions excl. fittings L x W x H | mm | 434 | 600 | 520 | 540 | 650 | 650 | 650 | 840 | 840 | 1130 | 1313 |
| | | 456 | 399 | 445 | 445 | 465 | 465 | 465 | 520 | 520 | 660 | 800 |
| | | 519 | 406 | 545 | 555 | 589 | 589 | 582 | 664 | 664 | 810 | 870 |
| Approx. weight incl. capsule | kg | 67 + Inverter 9,7 | 82 + Inverter 9,7 | 105 + Inverter 9,7 | 111 + Inverter 13,5 | 160 + Inverter 16 | 160 + Inverter 21 | 162 + Inverter 21 | 230 + Inverter 19 | 230 + Inverter 39 | 545 | 670 |

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NOTE: For inverter generators - performance is calculated with :

*) cosPhi factor = 0,8 up to 40°C ambient temperature, otherwise calculate with a factor 1 up to 50°C.

**) cosPhi factor = 0,8 up to 40°C ambient temperature, otherwise calculate with a factor 1 up to 40°C (air-cooling. Other temperatures available on request) cosPhi factor = 0,8 up to 50°C ambient temperature, otherwise calculate with a factor 1 up to 50°C (water-cooling)

***) cosPhi factor = 0,8 up to 50°C ambient temperature, otherwise calculate with a factor 1 up to 50°C (water-cooling)

Fischer Panda “Compact Power” generators

Suitable for applications requiring continuous power and high starting capabilities with a very stable voltage supply

Marine generators from Panda 7 Mini with voltage regulation and voltage tolerance $\pm 3V$

- 3000 rpm - 50 Hz - 230V
- 3000 rpm - 50 Hz - 400V
- 3600 rpm - 60 Hz - 120 / 240V
- 3600 rpm - 60 Hz - 208V AC



| Model | | Panda 4000s.Neo PMS | Panda 5K PMS | Panda 7 Mini PMS | Panda 8000x PMS | Panda 8 Mini PMS | Panda 10000x PMS | Panda 12000x PMS | Panda 12 Mini PMS | Panda 15000x PMS | Panda 18x PMS | Panda 24x PMS | Panda 30x PMS | Panda 30ICx PMS | |
|--|-----------------------|---------------------|--------------|------------------|-----------------|------------------|------------------|------------------|-------------------|------------------|---------------|---------------|---------------|-----------------|------|
| Nominal performance ^{*)} | 230V 1-phase 50 Hz | kW | 3.4 | | 6.8 | | 8.0 | 10.2 | | 12.7 | 15.3 | 20.4 | 25.5 | 27 | |
| | | kVA | 4.0 | | | 8.0 | | 9.4 | 12.0 | | 15.0 | 18.0 | 24 | 30 | 31.7 |
| | 400V 3-phase 50 Hz | kW | | | | 6.8 | | 8.0 | 10.2 | | 12.7 | 15.3 | 20.4 | 25.5 | 27 |
| | | kVA | | | | 8.0 | | 9.4 | 12.0 | | 15.0 | 18.0 | 24 | 30 | 31.7 |
| 120 V on request 1-phase 60 Hz (request : 2x120V/240V) | kW | | 4,0 | 6.0 | | 7.5 | | | 11.5 | | | | | | |
| | kVA | | 4,7 | 6.0 | | 7.5 | | | 11.5 | | | | | | |
| Engine speed | rpm | 3000 | 3600 | 3600 | 3000 | 3600 | 3000 | 3000 | 3600 | 3000 | 3000 | 3000 | 3000 | 3000 | |
| Voltage tolerance | | $\pm 5\%$ | $\pm 5\%$ | $\pm 3V$ | $\pm 3V$ | $\pm 3V$ | $\pm 3V$ | $\pm 3V$ | $\pm 3V$ | $\pm 3V$ | $\pm 3V$ | $\pm 3V$ | $\pm 3V$ | $\pm 3V$ | |
| Control | | - | - | VCS | xControl | VCS | xControl | xControl | VCS | xControl | xControl | xControl | xControl | xControl | |
| Cooling circuits | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| Capsule type | | GFK | GFK | GFK | GFK | GFK | GFK | GFK | GFK | GFK | GFK | GFK | GFK | GFK | |
| Sound insulation | | 3D | 3D | 3D | 3D | 3D | 3D | 3D | 3D | 3D | 3D | 3D | 3D | 3D | |
| Engine manufacturer | | Fischer Panda | Kubota | Kubota | Kubota | Kubota | Kubota | Kubota | Kubota | Kubota | Kubota | Kubota | Kubota | Kubota | |
| Engine type | | FPE320 | Z482 | Z482 | Z482 | Z482 | Z602 | D722 | D722 | D902 | D1105 | V1505 | V1505T | V1505T IC | |
| Engine displacement | | 298 | 479 | 479 | 479 | 479 | 599 | 719 | 719 | 898 | 1123 | 1498 | 1498 | 1498 | |
| Number of cylinders | | 1 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | |
| Sound level 7m / 3m / 1m | dba | 54 / 64 / 69 | 52 / 62 / 67 | 52 / 62 / 67 | 52 / 62 / 67 | 53 / 63 / 68 | 52 / 62 / 67 | 53 / 63 / 67 | 54 / 64 / 68 | 54 / 64 / 68 | 55 / 65 / 69 | 55 / 65 / 69 | 55 / 65 / 69 | 55 / 65 / 69 | |
| Approx. capsule dimensions excl. fittings L x W x H | mm | 550 | 540 | 595 | 595 | 595 | 650 | 705 | 705 | 740 | 832 | 1010 | 1010 | 1010 | |
| | | 450 | 445 | 445 | 445 | 445 | 445 | 450 | 450 | 480 | 517 | 515 | 515 | 515 | |
| Approx. weight incl. capsule | kg | 518 | 554 | 555 | 555 | 555 | 570 | 590 | 587 | 600 | 620 | 674 | 674 | 674 | |
| | | 93 | 132 | 163 | 164 | 163 | 175 | 195 | 195 | 248 | 297 | 355 | 403 | 403 | |

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NOTE: *) For asynchronous generators up to and including P15000: the KVA is calculated with $\cos\Phi = 0.85$ for a short starting performance of inductive consumers. Otherwise it should be calculated with a factor of 1. Generators above and including Panda 16 with an optional start performance with compensation or starting-current booster are calculated with $\cos\Phi = 0.85$ otherwise it should be calculated with a factor of 1.

Fischer Panda "Hybrid Power"

DC generators

The ideal battery-charging generators for battery systems which may be required to power larger consumers for short periods during the day.



Panda AGT-DC marine generators

- 12 V / 24 V / 48 V
- (other voltages available on request)

| Model | | AGT-DC 4000-12V PMS | AGT-DC 4000-24V PMS | AGT-DC 4000-48V PMS | AGT-DC 6000-24V PMS | AGT-DC 8000-24V PMS | AGT-DC 11000-48V PMS | AGT-DC 13000-48V PMS | AGT-DC 18000-48V PMS | AGT-DC 22000-48V PMS |
|---|--------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|--|----------------------------|----------------------------|----------------------------|
| Continuous performance ¹⁾ | [kW] | 3.2 | 3.2 | 3.2 | 4.8 | 6.4 | 10.9 | 12.7 | 17.9 | 21.9 |
| Nominal voltage | [V] | 12 | 24 | 48 | 24 | 24 | 12 V - 400 V versions available. Current dependent upon voltage | | | |
| Constant current rate | [A] | 220 | 110 | 110 | 170 | 220 | | | | |
| Engine speed | [rpm] | 2400-3000 | 2400-3000 | 2400-3000 | 2400-3200 | 2300-2900 | 2300-2900 | 2400-3000 | 2400-3000 | 2400-3000 |
| Control | | fpControl | fpControl | fpControl | fpControl | fpControl | fpControl | fpControl | fpControl | fpControl |
| Cooling circuits | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Sound insulation | | GFK | GFK | GFK | GFK | GFK | GFK | GFK | GFK | GFK |
| Capsule type | | 3D | 3D | 3D | 3D | 3D | 3D | 3D | 3D | 4DS |
| Engine manufacturer | | Kubota | Kubota | Kubota | Kubota | Kubota | Kubota | Kubota | Kubota | Kubota |
| Engine type | | EA300 | EA300 | EA300 | Z482 | D722 | D902 | D1105 | V1505 | V1505T |
| Engine displacement | [cm ³] | 309 | 309 | 309 | 479 | 719 | 898 | 1123 | 1498 | 1498 |
| Cylinders | | 1 | 1 | 1 | 2 | 3 | 3 | 3 | 4 | 4 |
| Sound level 7 m / 3 m / 1 m | [dB(A)] | 54/64/68 | 54/64/68 | 54/64/68 | 53/63/68 | 53/63/68 | 54/64/68 | 55/65/69 | 55/65/69 | 55/65/69 |
| Approx. capsule dimensions excl. fittings L x W x H | [mm] | 598 | 598 | 598 | 560 | 660 | 660 | 760 | 870 | 960 |
| | | 398 | 398 | 398 | 510 | 515 | 580 | 515 | 540 | 570 |
| | | 410 | 410 | 410 | 584 | 594 | 616 | 613 | 675 | 680 |
| Approx. weight incl. capsule | [kg] | 90 | 90 | 90 | 139 | 160 | 170 | 226 | 265 | 350 |

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¹⁾The performance of an AGT-DC generator must be limited to the constant performance when batteries are used.

Fischer Panda "Hybrid Power VS"

DC generators with variable speed

The Fischer Panda variable-speed Hybrid DC generators have been especially designed for electric propulsion on board. These generators are compact, quiet, powerful and economical. They are characterized by their modern, innovative and electronic regulated hybrid charger which allows a wide RPM range at constant voltage. This technology is a further step into green motion of electric propulsion.



| Model | | Panda 20-VS PMS | Panda 45-VS PMS |
|---|--------------------|--|------------------------|
| Approx. capsule dimensions excl. fittings (L x W x H) | [mm] | 840 | 1313 |
| | | 515 | 800 |
| | | 661 | 892 |
| Weight | [kg] | 245 | 595 |
| Sound level ¹⁾ (7m / 3m 1m) | [dB] | 55 / 60 / 70 | 55 / 60 / 70 |
| Cooling system | | Dual circuit freshwater cooling via heat exchanger | |
| Standard capsule | | GFK 3D | MPL 6DS |
| Performance | | | |
| Nominal output | [kW] | 20 | 45 |
| Charging voltage | [V] | 300-500 | 300-500 |
| Max. current ** | [A] | 66 | 150 |
| Regulation | | electronic - performance or voltage or current | |
| Control | | | |
| Starter system | | 12V electric start | |
| Autostart | | integrated | |
| Remote control panel | | fpControl digital display | |
| Charger | | Hybrid Charger | Hybrid Charger |
| Charger cooling | | water-cooled | water-cooled |
| Charger | [kg] | external | mounted inside capsule |
| Engine | | | |
| Engine manufacturer | | Kubota | Hatz |
| Engine type | | V1505 | 4H50TIC |
| Engine displacement | [cm ³] | 1498 | 1952 |
| Speed | [rpm] | 1200-3000 | 1200-2800 |

** max current depending on the output power and voltage

¹⁾ Sound levels are preliminary levels only. Fischer Panda GmbH reserves the right to alter technical specifications without prior notice.



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