

A quiet, high-performance 80kW generator in a compact package.



DGK100D Ultra Quiet
100kVA/80kW 3 phase
58kW single phase

The 100kVA kWiet Power generator combines design simplicity with the highest standards of engineering and manufacturing excellence.

FEATURES

- Powered by a rugged, fuel efficient Isuzu engine. Meets current EPA Tier 3 emission standards
- Exceptionally quiet as a result of advanced sound absorbing technology.
- Thanks to its compact design, the DGK100D is only 102 inches long, making it the only 80kW generator that fits crosswise on a highway legal trailer.
- Single side servicing permits the unit to be mounted closer to a wall or truck cab.
- Provides both single and three phase output.
- Single-phase 120V output available in all voltage settings.
- Voltage selector permits matching output to the load. Lockable switch protects against improper voltage change.
- Low oil pressure, high coolant temperature and overload result in automatic shut-down.
- Thermal relay opens main circuit breaker to protect generator in case of overload.
- Durable all weather enclosure with powder coat paint and stainless steel fasteners throughout provides protection against corrosion.



Powered by Isuzu.

shindaiwa
Construction Products

DGK100D Specifications



GENERATOR

Generator type	Revolving Field Brushless AC
Continuous output, 60/50Hz, 3 phase	80kW (100kVA) / 66.6kW (83.3kVA)
Continuous output, 1 phase	58kW (58kVA)
Standby output, 3 phase	88kW (110kVA)
Voltage, 3 phase (switchable)	208, 240, 480V
Voltage, 1 phase (switchable)	120, 139, 240, 277V
Amps, 1 phase, 120V	214A (4 wire), 241A x 2 (zig-zag)
Amps, 1 phase, 240V	120A (4 wire), 241A (zig-zag)
Amps, 3 phase, 240V	240A
Amps, 3 phase, 480V	120A
Rated frequency / Regulation	60Hz* and 50Hz / ± less than 5%
Voltage regulation, 3 phase	±1%
Voltage regulation, 1 phase	±5%
Winding	3 phase, 4 wire Star with neutral/zig-zag
Power factor / Insulation	0.8 / Class F
Excitation / Number of poles	Self excitation (brushless) / 4 poles
Sound level, no load at 23 feet	57 dB(A)
Sound level, full load at 23 feet	60 dB(A)

DIESEL ENGINE

Make, model and type	Isuzu 4HK1, 4 cylinder
Emission certification	EPA Tier 3
Design features	Direct injection, Turbocharged, Intercooler
Displacement	317 cu. in. (5.193L)
Bore x stroke	6.1 x 4.9 in. (155 x 125mm)
Continuous rated output	153 hp (114.7kW) @ 1800 rpm
Starting system	Electric 12VDC
Internal fuel capacity	58.6 gallons (222L)
Fuel consumption, full load	6.1 gal./hr (23.12L/hr)
Fuel consumption, 3/4 load	4.8 gal./hr (18.18L/hr)
Fuel consumption, 1/2 load	3.4 gal./hr (12.85L/hr)
Fuel consumption, 1/4 load	2.1 gal./hr (7.99L/hr)
Total coolant capacity	6.1 gallons (23L)
Total oil capacity / oil class	5.8 gal. (22L) / CD class or higher

PHYSICAL CHARACTERISTICS

Dimensions (L x W x H)	102" x 49" x 71" (2590 x 1240 x 1800mm)
Unit dry weight	4554 lbs (2070kg)
Meters and controls	Voltage, frequency, amperage and hour meters; automatic voltage regulator; oil pressure and water temperature gauges; battery charge warning indicator.

AVAILABLE OPTIONS

Electronic governors, electronic auto-start modules, battery chargers and block heaters. Plus a variety of trailers, fuel tanks and trailer accessories.

* U.S. emissions certified at 60Hz only.

Shindaiwa reduces sound levels while keeping generators cost-competitive.

Ultra-Quiet is a unique technology that significantly reduces generator sound levels.



- Shindaiwa uses air dams and insulated panels to re-direct cooling air, doubling length of travel to minimize airflow noise.
- The generator enclosure features heavy gauge panels—with special attention to door panels—and engineered sound absorbing foam. The result is lower sound levels as well as increased unit rigidity.
- Specially tuned muffler and a longer exhaust pipe achieve improved balance of high and low noise frequencies.

As an example, thanks to Ultra-Quiet technology, the DGK100D produces only 60dBA at full load at 23 feet. That's about the level of sound produced by casual conversation!

