



SM ENGINEERING

PRODUCT BROCHURE



S M Engineering

Manufacturer of all type of generators & technical solution provider



Parameter

Specification

Model Number	SM-20KVA-DG
Brand Name	Perkins / Cummins / Isuzu
Power Output (Rated)	20 kVA (\approx 16 kW at 0.8 Power Factor)
Maximum Output	22 kVA (Short duration)
Engine Type	4-Cylinder, 4-Stroke, Water-Cooled Diesel Engine
Fuel Type	High-Speed Diesel (HSD)
Fuel Tank Capacity	60–70 Liters
Fuel Consumption	\sim 3.0–3.5 Liters/hour @ 75% load
Voltage Output	400V / 230V
Frequency	50 Hz
Phase Configuration	3-Phase (Optional: Single Phase)
Power Factor	0.8 Lagging
Starting System	Electric Start / Auto Start with ATS option
Cooling System	Radiator Water-Cooled
Noise Level	\leq 72 dB @ 7 meters (With Acoustic Canopy)
Alternator Brand	Stamford
Control Panel	Manual
Battery Type	12V 80Ah, Dry/Lead Acid
Dimensions (L×W×H)	1600 × 750 × 1050 mm
Weight (Approx.)	520–580 kg
Protection Grade	IP23 / IP44 (Depending on canopy/enclosure)
Canopy / Open Set	Open Set
Warranty	200 Hours
Recommended Usage	Shops, Clinics, Homes, Offices, Telecom Sites



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Model Number	SM-25KVA-DG
Brand Name	Perkins / Cummins / Isuzu
Power Output (Rated)	25 kVA (\approx 20 kW at 0.8 Power Factor)
Maximum Output	27.5 kVA
Engine Type	4-Cylinder, 4-Stroke, Water-Cooled Diesel Engine
Fuel Type	High-Speed Diesel (HSD)
Fuel Tank Capacity	70–80 Liters
Fuel Consumption	\sim 4.0 Liters/hour @ 75% load
Voltage Output	400V / 230V
Frequency	50 Hz
Phase Configuration	3-Phase (Optional: Single Phase)
Power Factor	0.8 Lagging
Starting System	Electric Start / Auto Start (ATS Compatible)
Cooling System	Radiator Water-Cooled
Noise Level	\leq 72 dB @ 7 meters (With Soundproof Canopy)
Alternator Brand	Stamford
Control Panel	Manual
Battery Type	12V 90Ah Maintenance-Free Battery
Dimensions (L×W×H)	1650 × 800 × 1100 mm
Weight (Approx.)	600–650 kg
Protection Grade	IP23 / IP44
Canopy / Open Set	Open set
Warranty	200 Hours
Recommended Usage	Homes, Offices, Small Factories, Shops, Clinics



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Specification

Model Number	SM-30KVA-DG
Brand Name	Perkins / Cummins / Isuzu
Power Output (Rated)	30 kVA (\approx 24 kW at 0.8 Power Factor)
Maximum Output	33 kVA
Engine Type	4-Cylinder, 4-Stroke, Water-Cooled Diesel Engine
Fuel Type	High-Speed Diesel (HSD)
Fuel Tank Capacity	80–90 Liters
Fuel Consumption	\sim 4.5–5.0 Liters/hour @ 75% load
Voltage Output	400V / 230V
Frequency	50 Hz
Phase Configuration	3-Phase (Optional: Single Phase)
Power Factor	0.8 Lagging
Starting System	Electric Start / Auto Start with ATS Option
Cooling System	Radiator Water-Cooled
Noise Level	\leq 72 dB @ 7 meters (With Acoustic Canopy)
Alternator Brand	Stamford
Control Panel	Manual
Battery Type	12V 100Ah Dry or Lead Acid Battery
Dimensions (L×W×H)	1700 × 850 × 1150 mm
Weight (Approx.)	650–700 kg
Protection Grade	IP23 / IP44 (Based on Enclosure)
Canopy / Open Set	Both
Warranty	200 Hours
Recommended Usage	Homes, Offices, Construction Sites, Shops, Clinics



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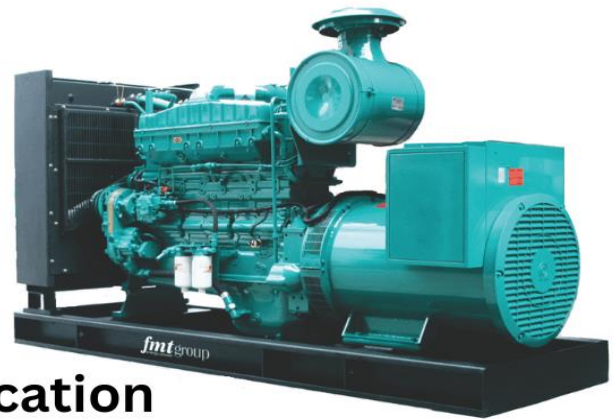
Model Number
Brand Name
Power Output (Rated)
Maximum Output
Engine Type
Fuel Type
Fuel Tank Capacity
Fuel Consumption
Voltage Output
Frequency
Phase Configuration
Power Factor
Starting System
Cooling System
Noise Level
Alternator Brand
Control Panel
Battery Type
Dimensions (L×W×H)
Weight (Approx.)
Protection Grade
Canopy / Open Set

Warranty
Recommended Usage

Specification

SM-50KVA-DG
Perkins / Cummins / Isuzu
50 kVA (≈ 40 kW at 0.8 Power Factor)
55 kVA
4-Cylinder or 6-Cylinder, 4-Stroke, Water-Cooled
High-Speed Diesel (HSD)
100–120 Liters
~7.0 Liters/hour @ 75% load
400V / 230V
50 Hz
3-Phase (Optional: Single Phase)
0.8 Lagging
Electric Start / Auto Start with ATS Compatibility
Radiator Water-Cooled
≤ 75 dB @ 7 meters (With Soundproof Canopy)
Stamford
Manual
12V 120Ah, Maintenance-Free Battery
2000 × 900 × 1300 mm
850–900 kg
IP23 / IP44
Open set

200 Hours
Villas, Offices, Banks, Industries, Commercial Sites



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Parameter

Specification

Model Number	SM-100KVA-DG
Brand Name	Perkins / Cummins / Isuzu
Power Output (Rated)	100 kVA (\approx 80 kW at 0.8 Power Factor)
Maximum Output	110 kVA
Engine Type	6-Cylinder, Turbocharged, 4-Stroke, Water-Cooled
Fuel Type	Diesel
Fuel Tank Capacity	High-Speed Diesel (HSD)
Fuel Consumption	180–200 Liters
Voltage Output	\sim 12–14 Liters/hour @ 75% load
Frequency	400V / 230V
Phase Configuration	50 Hz
Power Factor	3-Phase
Starting System	0.8 Lagging
Cooling System	Electric Start / Auto Start with ATS Option
Noise Level	Radiator with Heavy-Duty Water Cooling
Alternator Brand	\leq 75 dB @ 7 meters (With Soundproof Canopy)
Control Panel	Stamford
Battery Type	Manual 12V 150Ah Dry Battery
Dimensions (L×W×H)	2600 × 1100 × 1500 mm
Weight (Approx.)	1150–1300 kg
Protection Grade	IP23 / IP44
Canopy / Open Set	Both
Warranty	200 Hours
Recommended Usage	Industries, Hospitals, Commercial Buildings, Telecom



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Specification

Model Number	SM-150KVA-DG
Brand Name	Perkins / Cummins / Isuzu
Power Output (Rated)	150 kVA (≈ 120 kW at 0.8 Power Factor)
Maximum Output	165 kVA
Engine Type	6-Cylinder, Turbocharged, 4-Stroke, Heavy-Duty Diesel Engine
Fuel Type	High-Speed Diesel (HSD)
Fuel Tank Capacity	250–300 Liters
Fuel Consumption	~18–20 Liters/hour @ 75% load
Voltage Output	400V / 230V
Frequency	50 Hz
Phase Configuration	3-Phase
Power Factor	0.8 Lagging
Starting System	Electric Start / Auto Start with ATS Ready
Cooling System	Water-Cooled Radiator with Auxiliary Fan
Noise Level	≤ 75 dB @ 7 meters (With Acoustic Canopy)
Alternator Brand	Stamford
Control Panel	Maunal
Battery Type	2x12V 150Ah Dry Batteries
Dimensions (L×W×H)	3000 × 1200 × 1700 mm
Weight (Approx.)	1700–1900 kg
Protection Grade	IP23 / IP44
Canopy / Open Set	Open set
Warranty	200 Hours
Recommended Usage	Large Industries, Hospitals, Commercial Buildings, Schools, Banks



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Specification

Model Number	SM-200KVA-DG
Brand Name	Perkins / Cummins / Isuzu
Power Output (Rated)	200 kVA (≈ 160 kW at 0.8 Power Factor)
Maximum Output	220 kVA
Engine Type	6-Cylinder, Turbocharged & Intercooled, Heavy-Duty Diesel Engine
Fuel Type	High-Speed Diesel (HSD)
Fuel Tank Capacity	350–400 Liters
Fuel Consumption	~24–28 Liters/hour @ 75% load
Voltage Output	400V / 230V
Frequency	50 Hz
Phase Configuration	3-Phase
Power Factor	0.8 Lagging
Starting System	Electric Start / Auto Start (ATS Compatible)
Cooling System	Radiator Cooled with Heavy-Duty Fan System
Noise Level	≤ 75 dB @ 7 meters (With Acoustic Canopy)
Alternator Brand	Stamford
Control Panel	Maunal
Battery Type	2x12V 150Ah Batteries
Dimensions (L×W×H)	3400 × 1300 × 1800 mm
Weight (Approx.)	2000–2200 kg
Protection Grade	IP23 / IP44
Canopy / Open Set	Open Set
Warranty	200 Operating Hours
Recommended Usage	Large Factories, Hospitals, High-Rise Buildings, Telecom, Datacenters



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Specification

Model Number	SM-250KVA-DG
Brand Name	Perkins / Cummins / Isuzu
Power Output (Rated)	250 kVA (≈ 200 kW at 0.8 Power Factor)
Maximum Output	275 kVA
Engine Type	6-Cylinder, Turbocharged & After cooled, Heavy-Duty Diesel Engine
Fuel Type	High-Speed Diesel (HSD)
Fuel Tank Capacity	400–500 Liters
Fuel Consumption	~30–34 Liters/hour @ 75% load
Voltage Output	400V / 230V
Frequency	50 Hz
Phase Configuration	3-Phase
Power Factor	0.8 Lagging
Starting System	Electric Start / Auto Start (ATS Compatible)
Cooling System	Radiator Water-Cooled with Auxiliary Fan
Noise Level	≤ 75 dB @ 7 meters (With Acoustic Canopy)
Alternator Brand	Stamford
Control Panel	Manual
Battery Type	2x12V 200Ah Dry Batteries
Dimensions (L×W×H)	3600 × 1400 × 1900 mm
Weight (Approx.)	2300–2500 kg
Protection Grade	IP23 / IP44
Canopy / Open Set	Open set
Warranty	200 Operating Hours
Recommended Usage	Industrial Plants, Hospitals, Commercial Complexes, Data Centers



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Specification

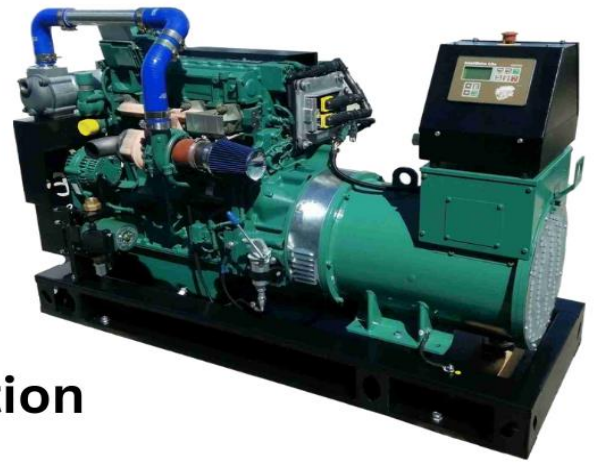
Model Number	SM-300KVA-DG
Brand Name	Perkins / Cummins / Isuzu
Power Output (Rated)	300 kVA (≈ 240 kW at 0.8 Power Factor)
Maximum Output	330 kVA
Engine Type	6-Cylinder, Turbocharged & After cooled, Heavy-Duty Industrial Diesel
Fuel Type	High-Speed Diesel (HSD)
Fuel Tank Capacity	500–600 Liters
Fuel Consumption	~38–42 Liters/hour @ 75% load
Voltage Output	400V / 230V
Frequency	50 Hz
Phase Configuration	3-Phase
Power Factor	0.8 Lagging
Starting System	Electric Start / Auto Start (ATS Ready)
Cooling System	Radiator Water-Cooled with High-Capacity Cooling Fan
Noise Level	≤ 75 dB @ 7 meters (With Soundproof Canopy)
Alternator Brand	Stamford / Leroy Somer / SM Local Alternator
Control Panel	Manual
Battery Type	2x12V 200Ah Maintenance-Free Batteries
Dimensions (L×W×H)	3800 × 1500 × 2000 mm
Weight (Approx.)	2600–2800 kg
Protection Grade	IP23 / IP44
Canopy / Open Set	Open set
Warranty	200 Operating Hours
Recommended Usage	Large-Scale Industries, Hospitals, Data Centers, Institutions



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Model Number	SM-350KVA-DG
Brand Name	Perkins / Cummins / Isuzu
Power Output (Rated)	350 kVA (\approx 280 kW at 0.8 Power Factor)
Maximum Output	385 kVA
Engine Type	6-Cylinder / V8, Turbocharged & After cooled, Industrial Diesel Engine
Fuel Type	High-Speed Diesel (HSD)
Fuel Tank Capacity	600-700 Liters
Fuel Consumption	\sim 44-48 Liters/hour @ 75% load
Voltage Output	400V / 230V
Frequency	50 Hz
Phase Configuration	3-Phase
Power Factor	0.8 Lagging
Starting System	Electric Start / Auto Start with ATS Compatibility
Cooling System	Heavy-Duty Radiator Water-Cooled
Noise Level	\leq 75 dB @ 7 meters (With Soundproof Canopy)
Alternator Brand	Stamford
Control Panel	Manual
Battery Type	2x12V 200Ah Dry Batteries
Dimensions (LxWxH)	4000 x 1600 x 2200 mm
Weight (Approx.)	3000-3200 kg
Protection Grade	IP23 / IP44
Canopy / Open Set	Open set
Warranty	200 Operating Hours
Recommended Usage	Industrial Plants, Textile Units, Hospitals, Commercial Buildings



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Model Number	SM-400KVA-DG
Brand Name	Perkins / Cummins / Isuzu
Power Output (Rated)	400 kVA (\approx 320 kW at 0.8 Power Factor)
Maximum Output	440 kVA
Engine Type	V8 or Inline-6, Turbocharged & After cooled, Industrial Diesel Engine
Fuel Type	High-Speed Diesel (HSD)
Fuel Tank Capacity	700–800 Liters
Fuel Consumption	\sim 50–55 Liters/hour @ 75% load
Voltage Output	400V / 230V
Frequency	50 Hz
Phase Configuration	3-Phase
Power Factor	0.8 Lagging
Starting System	Electric Start / Auto Start (ATS Compatible)
Cooling System	Water-Cooled Radiator with Heavy-Duty Cooling Fan
Noise Level	\leq 75 dB @ 7 meters (With Acoustic Canopy)
Alternator Brand	Stamford
Control Panel	Manual
Battery Type	2x12V 200Ah Maintenance-Free Batteries
Dimensions (LxWxH)	4300 x 1700 x 2300 mm
Weight (Approx.)	3400–3600 kg
Protection Grade	IP23 / IP44
Canopy / Open Set	Open set
Warranty	200 Operating Hours
Recommended Usage	Large Industrial Units, Textile Mills, Hospitals, Data Centers, Campuses



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Parameter

Specification

Model Number	SM-500KVA-DG
Brand Name	Perkins / Cummins / Isuzu / Cat
Power Output (Rated)	500 kVA (\approx 400 kW at 0.8 Power Factor)
Maximum Output	550 kVA
Engine Type	V8 / V12, Turbocharged & After cooled, Heavy-Duty Industrial Diesel Engine
Fuel Type	High-Speed Diesel (HSD)
Fuel Tank Capacity	900–1000 Liters
Fuel Consumption	~62–68 Liters/hour @ 75% load
Voltage Output	400V / 230V
Frequency	50 Hz
Phase Configuration	3-Phase
Power Factor	0.8 Lagging
Starting System	Electric Start / Auto Start with ATS Compatibility
Cooling System	High-Capacity Water-Cooled Radiator System
Noise Level	\leq 75 dB @ 7 meters (With Industrial Soundproof Canopy)
Alternator Brand	Stamford
Control Panel	Manual
Battery Type	2x12V 200Ah Heavy-Duty Dry Batteries
Dimensions (L×W×H)	4800 × 1800 × 2400 mm
Weight (Approx.)	4200–4500 kg
Protection Grade	IP23 / IP44
Canopy / Open Set	Open set
Warranty	200 Operating Hours
Recommended Usage	Large Factories, Power Plants, Hospitals, Commercial Buildings, Datacenters



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