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DIESEL GENERATOR SET

INDUSTRY-LEADING POWER SYSTEM SOLUTIONS PROVIDER

EPIOR

CONTENTS

ABOUT EPIOR

Suzhou Epior Technology Co., Ltd. has its headquarters in Suzhou High-tech Zone. Its wholly-owned subsidiary, Suzhou Xinshengpu Power Technology Co., Ltd., is located in Zhangjiagang Economic and Technological Development Zone and owns a modern manufacturing base covering an area of 14,000 square meters.

Epior focuses on the research, development and manufacturing of technologies for green, intelligent, low-carbon, high-performance, high-speed and high-power engine products. It has created three core product lines, namely the megawatt-level high-power power system, diesel power system and gas power system, covering a diversified fuel system including diesel, gas, methanol, hydrogen and other fuels.

Epior's high-power engines and power generation products provide reliable power support for critical infrastructure and have been widely and deeply applied in many key fields that are crucial to national economy and people's livelihood. From security power supplies for critical facilities with extremely high requirements for stability and reliability, such as data centers, nuclear power plants, military power supplies, and medical facilities, to the main power fields including ship propulsion, oil and gas extraction, fracturing trucks, locomotives, and large mining trucks, Epior's products can be found in these applications.

EPIOR DIESEL GENSET

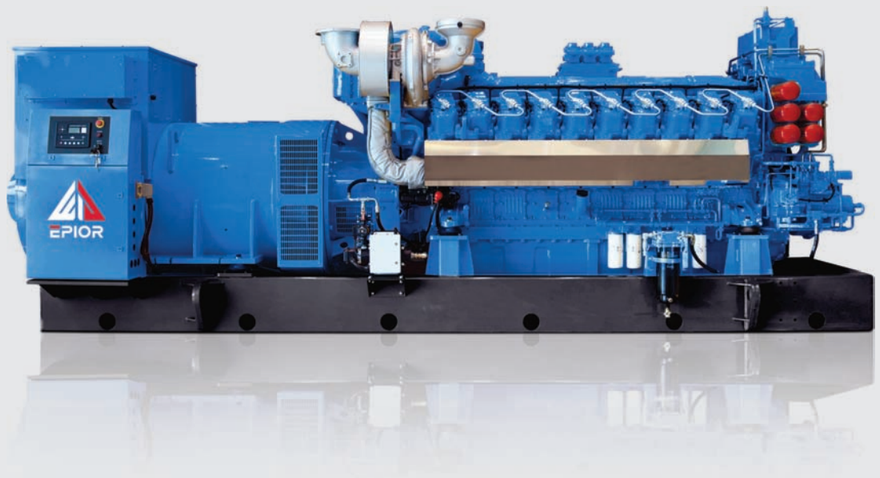
The rise of islanded microgrids and the rapid increase in computing power demand, especially with the continuous iteration and updating of information technology applications such as Cloud Computing, Big Data, IOT, Artificial Intelligence, and AI big models, have made high-power diesel generators the preferred backup power source for data centers. With its core technological advantage of high-power high-speed diesel engines, Epior has widely applied high-power diesel generator sets in the field of data centers.

POWER RANGE

The core components such as the engine, generator, and control system matched with the crew come from Epior.

At present, the EPIOR 171 series diesel generator set
50Hz main power coverage 650kW~2600kW
60Hz main power coverage 720kW~2800kW

The EPIOR generator set meets the standards of VDE 0530, ISO8520.G3, NFPA 110, GB2820.G3, ISO3046, and SAE J1995/J1349.



APPLICATION AREAS

Provide complete power solutions for data centers, emergency power, primary power, and other fields.

Epior diesel generator sets, with their excellent performance and quality, have been widely and deeply applied in many key fields related to national economy and people's livelihood. From data centers, computing power centers, microgrids, backup power for nuclear power that require high stability and reliability, to oil and gas field extraction, backup power for medical facility, and even black start power for thermal power plants, Epior products have been widely praised by customers and the market.

Data center

Computing Power Center

Microgrids

Oil and Gas Field Exploitation

Backup Power for Nuclear Power

Backup Power for Medical Facility

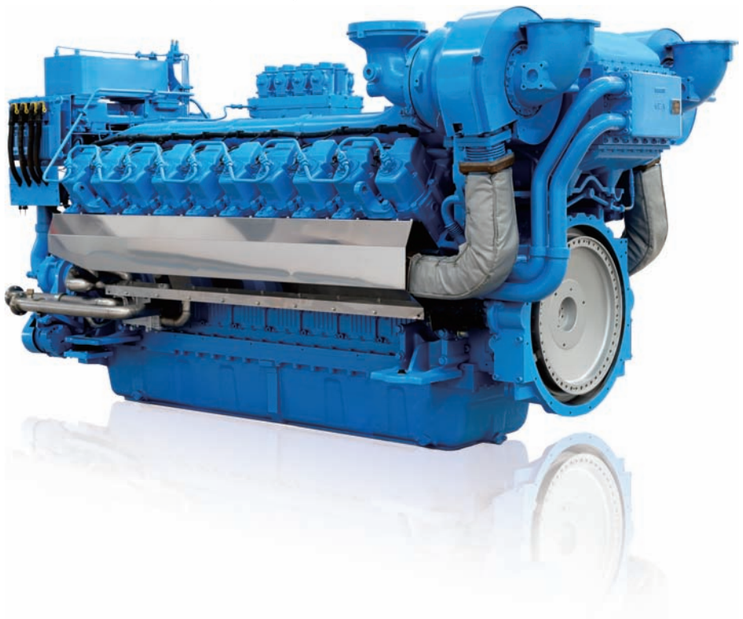
Black Start Power for Thermal Power Plants

THE CORE TECHNOLOGY

Epior integrates all innovative technologies into the design, research and development, and manufacturing of XD series high-speed and high-power engines and generator sets. The XD171 series high-speed and high-power engine independently developed by it has significant characteristics such as high output power, low fuel consumption, low emissions, and compact structure.

Compact desigh

- 0.75 ~ 2.6MW @ 1500 rpm
- High power density 180 kW/m³
- Maximum displacement of 96L
- Cylinder*stroke:171*210mm
- Mid mounted single camshaft design
- Design of dual cooling oil passages for pistons
- 90 ° V-shaped body
- ECU control system
- Bosch next-generation electronic control modular high-pressure common rail fuel injection system



THE CORE COMPONENT

Cylinder head

- Separate cylinder head, high ignition pressure
- Two intake and exhaust valves per cylinder
- Low fuel consumption
- Fuel injectors with low smoke index and exhaust emissions
- Metallic crankcase sealing ring

Camshaft

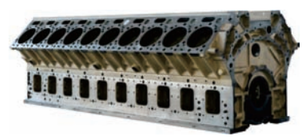
- Forged
- Driven directly by crankshaft
- Sleeve bearing
- Machined as one piece providing high rigidity and weight optimization

Connecting rod

- Integrated construction design, optimized weight
- Forged structure, separated bearing shell
- Forced lubrication of the upper and lower bearings of the connecting rod
- High strength fatigue resistance

Crankshaft

- Fully self balancing design
- Low vibration and noise
- Forging steel crankshaft
- induction hardening



Crankcase

- One piece cast crankshaft
- Integral coolant ducts
- Integral oil supply for piston cooling
- Wet cylinder liners
- Large inspection port covers
- Closed circuit crankshaft

Piston

- New articulation piston structure
- High strength alloy forged piston head

OPEN TYPE GENERATOR SET

Power range is 720kW~3080kW

Epior is here to protect you anytime, anywhere

Delivering rugged, reliable mechanical and electrical performance, Epior diesel generator sets are also suited to peak utility plants, distributed generation facilities, peak shaving and power management at large commercial or industrial sites.

The power system is chosen for its ability to handle a heavy duty load while maintaining reduced operating noise levels.

FEATURES & BENEFITS

Robust and durable

Extra-large cooling pack provides excellent cooling capacity critical to trouble free operation.

Delivering the power you need

Powerful, mobile, multi-purpose,and durable.

Performance and reliability

EPIOR ensures optimum power. Extensive testing confirms reliability.
All generators reach or exceed noise and emission regulation.

High quality power supply

Regardless of the situation, our system can provide more available power within seconds.
We provide industry-leading power solutions for data centers.

Compact and durable

A compact solid and flexible structure leads to a long service life and quiet operation.

High adaptability

Continuous operation and full load operation in high temperature, severe cold, and dusty environments. During the operation and frequent load changes, these generator sets repeatedly demonstrate excellent adaptability and reliability.

TECHNICAL DATA

Generator set		XDE1200E		XDE1300E	
Rated frequency	Hz	50	60	50	60
Prime power	kVA	1000	1150	1125	1300
	KW	800	920	900	1040
Standby power	kVA	1100	1250	1250	1440
	KW	880	1000	1000	1150
Rated voltage	V	400/230	416/240	400/230	416/240
Rated current	A	1443	1596	1624	1804
Rated rotation speed	r/min	1500	1800	1500	1800
Generator					
Generator manufacturer		EPIOR		EPIOR	
Generator type		XFS1000		XFS1130	
Pole No.		4		4	
Excitation mode		PMG(with e-AVR)		PMG(with e-AVR)	
Power factor	COSΦ	0.8(lag)		0.8(lag)	
Insulation grade		H		H	
Engine					
Engine manufacturer		EPIOR		EPIOR	
Engine type		XD8V171ZLCR		XD8V171ZLCR	
Structure type		8-cylinder,V-type,90 degrees, water-cooled, 4-stroke, turbocharged,water-air intercooled		8-cylinder,V-type,90 degrees, water-cooled, 4-stroke, turbocharged,water-air intercooled	
Bore x stroke	mm	171×210		171×210	
Displacement	L	38.58		38.58	
Compression ratio		15.5∶1		15.5∶1	
Rated power	KW	900	1113	1084	1256
Engine cooling water capacity	L	137		137	
Lubricating system		Pressure splashed		Pressure splashed	
Lube oil brand		SAE 15W-40 or API CF-4		SAE 15W-40 or API CF-4	
Lube capacity	L	(Max)162～(Min)123		(Max)162～(Min)123	
Starting system	V	24 Electric starter		24 Electric starter	
Starting motor capacity	V-KW	24/11		24/11	
Charging generator capacity	V-A	28/95		28/95	
Battery capacity	V-Ah	12/200×2		12/200×2	
Engine fuel consumption	g/KW.h	186	195	186	195
Genset					
Fuel type		Diesel: 0#(summer)-10#(winter)-35#(cold)		Diesel: 0#(summer)-10#(winter)-35#(cold)	
Panel type		DSE7320		DSE7320	
Noise level (1m)	dB(A)	105		105	
Fuel tank capacity	L	/		/	
Air filter intake capacity	m³/S	1.16	1.30	1.27	1.47
Exhaust temperature	℃	⩽450		⩽450	
Silencer exhaust capacity	m³/S	3.25	3.65	3.56	4.12
Overall dimension	mm	4887×2064×2326		5027×2064×2326	
Net weight	kg	9197		9255	

TECHNICAL DATA

Generator set		XDE1500E		XDE1800E	
Rated frequency	Hz	50	60	50	60
Prime power	kVA	1300	1500	1600	1750
	KW	1040	1200	1280	1400
Standby power	kVA	1430	1650	1760	1925
	KW	1145	1320	1400	1540
Rated voltage	V	400/230	416/240	400/230	416/240
Rated current	A	1876	2082	2309	2429
Rated rotation speed	r/min	1500	1800	1500	1800
Generator					
Generator manufacturer		EPIOR		EPIOR	
Generator type		XFS1320		XFS1650	
Pole No.		4		4	
Excitation mode		PMG(with e-AVR)		PMG(with e-AVR)	
Power factor	COSΦ	0.8(lag)		0.8(lag)	
Insulation grade		H		H	
Engine					
Engine manufacturer		EPIOR		EPIOR	
Engine type		XD12V171ZLCR		XD12V171ZLCR	
Structure type		12-cylinder,V-type,90 degrees, water-cooled, 4-stroke, turbocharged,water-air intercooled		12-cylinder,V-type,90 degrees, water-cooled, 4-stroke, turbocharged,water-air intercooled	
Bore x stroke	mm	171×210		171×210	
Displacement	L	57.87		57.87	
Compression ratio		15.5∶1		15.5∶1	
Rated power	KW	1443	1447	1568	1678
Engine cooling water capacity	L	169		169	
Lubricating system		Pressure splashed		Pressure splashed	
Lube oil brand		SAE 15W-40 or API CF-4		SAE 15W-40 or API CF-4	
Lube capacity	L	(Max)236~(Min)192		(Max)236~(Min)192	
Starting system	V	24 Electric starter		24 Electric starter	
Starting motor capacity	V-KW	24/11x2		24/11x2	
Charging generator capacity	V-A	28/95		28/95	
Battery capacity	V-Ah	186	12/150 ×4	12/150 ×4	
Engine fuel consumption	g/KW.h		195	186	195
Genset					
Fuel type		Diesel: 0#(summer)-10#(winter)-35#(cold)		Diesel: 0#(summer)-10#(winter)-35#(cold)	
Panel type		DSE7320		DSE7320	
Noise level (1m)	dB(A)	106		106	
Fuel tank capacity	L	1.51	/	/	
Air filter intake capacity	m³/S		1.75	1.84	1.97
Exhaust temperature	℃	4.22	⩽450	⩽450	
Silencer exhaust capacity	m³/S		4.89	5.14	5.50
Overall dimension	mm	5280×2250×2625		5280×2250×2625	
Net weight	kg	12850		12950	

TECHNICAL DATA

Generator set		XDE2000E		XDE2350E	
Rated frequency	Hz	50	60	50	60
Prime power	kVA	1800	2000	2000	2300
	KW	1440	1600	1600	1840
Standby power	kVA	2000	2200	2200	2530
	KW	1600	1760	1760	2020
Rated voltage	V	400/230	416/240	400/230	416/240
Rated current	A	2598	2776	2887	3192
Rated rotation speed	r/min	1500	1800	1500	1800
Generator					
Generator manufacturer		EPIOR		EPIOR	
Generator type		XFS1800		XFS1800	
Pole No.		4		4	
Excitation mode		PMG(with e-AVR)		PMG(with e-AVR)	
Power factor	COSΦ	0.8(lag)		0.8(lag)	
Insulation grade		H		H	
Engine					
Engine manufacturer		EPIOR		EPIOR	
Engine type		XD12V171ZLCR		XD16V171ZLCR	
Structure type		12-cylinder,V-type,90 degrees, water-cooled, 4-stroke, turbocharged,water-air intercooled		16-cylinder,V-type,90 degrees, water-cooled, 4-stroke, turbocharged,water-air intercooled	
Bore x stroke	mm	171×210		171×210	
Displacement	L	57.87		77.16	
Compression ratio		15.5∶1		15.5∶1	
Rated power	KW	1738	1914	1980	2228
Engine cooling water capacity	L	169		204	
Lubricating system		Pressure splashed		Pressure splashed	
Lube oil brand		SAE 15W-40 or API CF-4		SAE 15W-40 or API CF-4	
Lube capacity	L	(Max)236 ~ (Min)192		(Max)288 ~ (Min)209	
Starting system	V	24 Electric starter		24 Electric starter	
Starting motor capacity	V-KW	24/11x2		24/11x2	
Charging generator capacity	V-A	28/95		28/95	
Battery capacity	V-Ah	12/150 ×4		12/200 ×4	
Engine fuel consumption	g/KW.h	186	195	186	195
Genset					
Fuel type		Diesel: 0#(summer)-10#(winter)-35#(cold)		Diesel: 0#(summer)-10#(winter)-35#(cold)	
Panel type		DSE7320		DSE7320	
Noise level (1m)	dB(A)	106		107	
Fuel tank capacity	L	/		/	
Air filter intake capacity	m³/S	2.04	2.24	2.32	2.61
Exhaust temperature	℃	⩽450		⩽450	
Silencer exhaust capacity	m³/S	5.70	6.28	6.50	7.31
Overall dimension	mm	5280×2250×2625		6320×2400×2850	
Net weight	kg	12950		15350	

TECHNICAL DATA

Generator set		XDE2550E		XDE2900E	
Rated frequency	Hz	50	60	50	60
Prime power	kVA	2250	2600	2500	2900
	KW	1800	2080	2000	2320
Standby power	kVA	2500	2860	2750	3200
	KW	2000	2300	2200	2550
Rated voltage	V	400/230	416/240	400/230	416/240
Rated current	A	3248	3609	3609	4025
Rated rotation speed	r/min	1500	1800	1500	1800
Generator					
Generator manufacturer		EPIOR		EPIOR	
Generator type		XFS2250		XFS2250	
Pole No.		4		4	
Excitation mode		PMG(with e-AVR)		PMG(with e-AVR)	
Power factor	COSΦ	0.8(lag)		0.8(lag)	
Insulation grade		H		H	
Engine					
Engine manufacturer		EPIOR		EPIOR	
Engine type		XD16V171ZLCR		XD20V171ZLCR	
Structure type		16-cylinder,V-type,90 degrees, water-cooled, 4-stroke, turbocharged,water-air intercooled		20-cylinder,V-type,90 degrees, water-cooled, 4-stroke, turbocharged,water-air intercooled	
Bore x stroke	mm	171×210		171×210	
Displacement	L	77.16		96.45	
Compression ratio		15.5∶1		15.5∶1	
Rated power	KW	2200	2514	2426	2745
Engine cooling water capacity	L	204		234	
Lubricating system		Pressure splashed		Pressure splashed	
Lube oil brand		SAE 15W-40 or API CF-4		SAE 15W-40 or API CF-4	
Lube capacity	L	(Max)288 ~ (Min)209		(Max)340 ~ (Min)245	
Starting system	V	24 Electric starter		24 Electric starter	
Starting motor capacity	V-KW	24/11 ×2		24/11x2	
Charging generator capacity	V-A	28/95		28/95	
Battery capacity	V-Ah	12/200 ×4		12/200 ×6	
Engine fuel consumption	g/KW.h	186	195	186	195
Genset					
Fuel type		Diesel: 0#(summer)-10#(winter)-35#(cold)		Diesel: 0#(summer)-10#(winter)-35#(cold)	
Panel type		DSE7320		DSE7320	
Noise level (1m)	dB(A)	107		107	
Fuel tank capacity	L	/		/	
Air filter intake capacity	m³/S	2.54	2.95	2.84	3.22
Exhaust temperature	℃	⩽450		⩽450	
Silencer exhaust capacity	m³/S	7.11	8.25	7.96	9.00
Overall dimension	mm	6320×2400×2850		7120×2900×3250	
Net weight	kg	15350		19050	

TECHNICAL DATA

Generator set		XDE3100E	
Rated frequency	Hz	50	60
Prime power	kVA	2750	3100
	KW	2200	2480
Standby power	kVA	3030	3400
	KW	2425	2730
Rated voltage	V	400/230	416/240
Rated current	A	3969	4302
Rated rotation speed	r/min	1500	1800
Generator			
Generator manufacturer		EPIOR	
Generator type		XFS2800	
Pole No.		4	
Excitation mode		Brushless, self-excitation and constant voltage(with AVR) / PMG(with e-AVR)	
Power factor	COSΦ	0.8(lag)	
Insulation grade		H	
Engine			
Engine manufacturer		EPIOR	
Engine type		XD20V171ZLCR	
Structure type		20-cylinder,V-type,90 degrees, water-cooled, 4-stroke, turbocharged,water-air intercooled	
Bore x stroke	mm	171×210	
Displacement	L	96.45	
Compression ratio		15.5∶1	
Rated power	KW	2668	3016
Engine cooling water capacity	L	234	
Lubricating system		Pressure splashed	
Lube oil brand		SAE 15W-40 or API CF-4	
Lube capacity	L	(Max)340～(Min)245	
Starting system	V	24 Electric starter	
Starting motor capacity	V-KW	24/11x2	
Charging generator capacity	V-A	28/95	
Battery capacity	V-Ah	12/200 ×6	
Engine fuel consumption	g/KW.h	186	195
Genset			
Fuel type		Diesel: 0#(summer)-10#(winter)-35#(cold)	
Panel type		DSE7320	
Noise level (1m)	dB(A)	107	
Fuel tank capacity	L	/	
Air filter intake capacity	m³/S	3.13	3.53
Exhaust temperature	℃	⩽450	
Silencer exhaust capacity	m³/S	8.75	9.90
Overall dimension	mm	7185×2900×3250	
Net weight	kg	19150	

TECHNICAL DATA

Generator set		XDE3500E	
Rated frequency	Hz	50	60
Prime power	kVA	3000	3500
	KW	2400	2800
Standby power	kVA	3300	3850
	KW	2640	3080
Rated voltage	V	400/230	416/240
Rated current	A	4330	4858
Rated rotation speed	r/min	1500	1800
Generator			
Generator manufacturer		EPIOR	
Generator type		XFS3125	
Pole No.		4	
Excitation mode		Brushless, self-excitation and constant voltage(with AVR) / PMG(with e-AVR)	
Power factor	COSΦ	0.8(lag)	
Insulation grade		H	
Engine			
Engine manufacturer		EPIOR	
Engine type		XD20V171ZLCR	
Structure type		20-cylinder,V-type,90 degrees, water-cooled, 4-stroke, turbocharged,water-air intercooled	
Bore x stroke	mm	171×210	
Displacement	L	96.45	
Compression ratio		15.5∶1	
Rated power	KW	2860	3313
Engine cooling water capacity	L	234	
Lubricating system		Pressure splashed	
Lube oil brand		SAE 15W-40 or API CF-4	
Lube capacity	L	(Max)340～(Min)245	
Starting system	V	24 Electric starter	
Starting motor capacity	V-KW	24/11x2	
Charging generator capacity	V-A	28/95	
Battery capacity	V-Ah	12/200 ×6	
Engine fuel consumption	g/KW.h	186	195
Genset			
Fuel type		Diesel: 0#(summer)-10#(winter)-35#(cold)	
Panel type		DSE7320	
Noise level (1m)	dB(A)	107	
Fuel tank capacity	L	/	
Air filter intake capacity	m³/S	3.35	3.88
Exhaust temperature	℃	⩽450	
Silencer exhaust capacity	m³/S	9.38	10.87
Overall dimension	mm	7185×2900×3250	
Net weight	kg	19150	

CONTAINERIZED GENERATOR SET

Power range is 720kW~3080kW

Continuous power supply solution, safe choice for you.

Due to its well-designed construction, Epior containerized generator sets can be conveniently moved on site wherever needed. These units will stand up in the toughest conditions. The generator sets are driven by outstanding advanced reliable diesel engines and are equipped with brushless, synchronous alternators.

Easily handled by crane or lift truck, the robust 20 and 40 feet CSC ISO container enclosure has lockable wide operating doors so all components are always in reach facilitating service and maintenance.

Each Epior containerized generator set is designed to meet or exceed international approval specifications and is compliant with current safety and environmental regulations.

FEATURES & BENEFITS

• Superior service accessibility

The radiator, engine and alternator is installed on a steel inner bottom platform.Dual side access doors with a flexible rubber strip edge seal and supplied service tools make maintenance and service an easy job.The stainless steel hinges offer increased longevity.

• Better cooling ability

Due to its advanced cooling system, the containerized generator set ensures 100%power at 40℃ at an altitude of 1000 meters.This makes the generators ideally suited for use in extreme temperatures and high altitudes,lowering the risk of shutdowns.

• Low operating noise

The container's inner side air inlet and outlet are covered by sound insulating material and apply an exhaust silencer and manifold.This ensures an ultra-silent operation and the optimum choice for noise sensitive areas.

• Superior standard configuration

The standard protection systems and accessories ensure the containerized generator set can run in extreme and difficult conditions.

• Standard container body

Container with CSC/CCS certificate, the complete containerized gensets can be directly carried by Cargo ship.

• Specially formulated coatings

Container is painted by high stiffness and anti-rusty polyurethane painting, endurable for 20 years.

TECHNICAL DATA

Generator set		XDE900C		XDE1000C	
Rated frequency	Hz	50	60	50	60
Prime power	kVA	810	900	910	1000
	KW	650	720	730	800
Standby power	kVA	900	990	1000	1100
	KW	720	720	800	880
Rated voltage	V	400/230	416/240	400/230	416/240
Rated current	A	1169	1249	1314	1388
Rated rotation speed	r/min	1500	1800	1500	1800
Generator					
Generator manufacturer		EPIOR		EPIOR	
Generator type		XFS800		XFS910	
Pole No.		4		4	
Excitation mode		PMG(with e-AVR)		PMG(with e-AVR)	
Power factor	COSΦ	0.8(lag)		0.8(lag)	
Insulation grade		H		H	
Engine					
Engine manufacturer		EPIOR		EPIOR	
Engine type		XD8V171ZLCR		XD8V171ZLCR	
Structure type		8-cylinder,V-type,90 degrees, water-cooled, 4-stroke, turbocharged,water-air intercooled		8-cylinder,V-type,90 degrees, water-cooled, 4-stroke, turbocharged,water-air intercooled	
Bore x stroke	mm	171×210		171×210	
Displacement	L	38.58		38.58	
Compression ratio		15.5∶1		15.5∶1	
Rated power	KW	825	927	902	1047
Engine cooling water capacity	L	120		120	
Lubricating system		Pressure splashed		Pressure splashed	
Lube oil brand		SAE 15W-40 or API CF-4		SAE 15W-40 or API CF-4	
Lube capacity	L	(Max)162 ~ (Min)123		(Max)162 ~ (Min)123	
Starting system	V	24 Electric starter		24 Electric starter	
Starting motor capacity	V-KW	24/11		24/11	
Charging generator capacity	V-A	28/95		28/95	
Battery capacity	V-Ah	12/200 ×2		12/200 ×2	
Engine fuel consumption	g/KW.h	186	195	186	195
Genset					
Fuel type		Diesel: 0#(summer)-10#(winter)-35#(cold)		Diesel: 0#(summer)-10#(winter)-35#(cold)	
Panel type		DSE7320		DSE7320	
Noise level (1m)	dB(A)	70		70	
Fuel tank capacity	L	1500		1500	
Air filter intake capacity	m³/S	0.93	1.08	1.16	1.30
Exhaust temperature	℃	⩽450		⩽450	
Silencer exhaust capacity	m³/S	2.62	3.03	3.25	3.65
Overall dimension	mm	20'ISO Standard cabinet 6058×2438×2591		20'ISO Standard cabinet 6058×2438×2591	
Net weight	kg	12600		12800	

TECHNICAL DATA

Generator set		XDE1200C		XDE1300C	
Rated frequency	Hz	50	60	50	60
Prime power	kVA	1000	1150	1125	1300
	KW	800	920	900	1040
Standby power	kVA	1100	1250	1250	1440
	KW	880	1000	1000	1150
Rated voltage	V	400/230	416/240	400/230	416/240
Rated current	A	1443	1596	1624	1804
Rated rotation speed	r/min	1500	1800	1500	1800
Generator					
Generator manufacturer		EPIOR		EPIOR	
Generator type		XFS1000		XFS1130	
Pole No.		4		4	
Excitation mode		PMG(with e-AVR)		PMG(with e-AVR)	
Power factor	COSΦ	0.8(lag)		0.8(lag)	
Insulation grade		H		H	
Engine					
Engine manufacturer		EPIOR		EPIOR	
Engine type		XD8V171ZLCR		XD8V171ZLCR	
Structure type		8-cylinder,V-type,90 degrees, water-cooled, 4-stroke, turbocharged,water-air intercooled		8-cylinder,V-type,90 degrees, water-cooled, 4-stroke, turbocharged,water-air intercooled	
Bore x stroke	mm	171×210		171×210	
Displacement	L	38.58		38.58	
Compression ratio		15.5∶1		15.5∶1	
Rated power	KW	990	1113	1084	1256
Engine cooling water capacity	L	120		120	
Lubricating system		Pressure splashed		Pressure splashed	
Lube oil brand		SAE 15W-40 or API CF-4		SAE 15W-40 or API CF-4	
Lube capacity	L	(Max)162 ~ (Min)123		(Max)162 ~ (Min)123	
Starting system	V	24 Electric starter		24 Electric starter	
Starting motor capacity	V-KW	24/11		24/11	
Charging generator capacity	V-A	28/95		28/95	
Battery capacity	V-Ah	12/200 ×2		12/200 ×2	
Engine fuel consumption	g/KW.h	186	195	186	195
Genset					
Fuel type		Diesel: 0#(summer)-10#(winter)-35#(cold)		Diesel: 0#(summer)-10#(winter)-35#(cold)	
Panel type		DSE7320		DSE7320	
Noise level (1m)	dB(A)	70		70	
Fuel tank capacity	L	1500		1500	
Air filter intake capacity	m³/S	1.16	1.30	1.27	1.47
Exhaust temperature	℃	⩽450		⩽450	
Silencer exhaust capacity	m³/S	3.25	3.65	3.56	4.12
Overall dimension	mm	20'ISO Standard cabinet 6058×2438×2591		20'ISO Standard cabinet 6058×2438×2591	
Net weight	kg	13000		13200	

TECHNICAL DATA

Generator set		XDE1500C		XDE1800C	
Rated frequency	Hz	50	60	50	60
Prime power	kVA	1300	1500	1600	1750
	KW	1040	1200	1280	1400
Standby power	kVA	1430	1650	1760	1925
	KW	1145	1320	1400	1540
Rated voltage	V	400/230	416/240	400/230	416/240
Rated current	A	1876	2082	2309	2429
Rated rotation speed	r/min	1500	1800	1500	1800
Generator					
Generator manufacturer		EPIOR		EPIOR	
Generator type		XFS1320		XFS1650	
Pole No.		4		4	
Excitation mode		PMG(with e-AVR)		PMG(with e-AVR)	
Power factor	COSΦ	0.8(lag)		0.8(lag)	
Insulation grade		H		H	
Engine					
Engine manufacturer		EPIOR		EPIOR	
Engine type		XD12V171ZLCR		XD12V171ZLCR	
Structure type		12-cylinder,V-type,90 degrees, water-cooled, 4-stroke, turbocharged,water-air intercooled		12-cylinder,V-type,90 degrees, water-cooled, 4-stroke, turbocharged,water-air intercooled	
Bore x stroke	mm	171×210		171×210	
Displacement	L	57.87		57.87	
Compression ratio		15.5∶1		15.5∶1	
Rated power	KW	1443	1447	1568	1678
Engine cooling water capacity	L	150		150	
Lubricating system		Pressure splashed		Pressure splashed	
Lube oil brand		SAE 15W-40 or API CF-4		SAE 15W-40 or API CF-4	
Lube capacity	L	(Max)236 ~ (Min)192		(Max)236 ~ (Min)192	
Starting system	V	24 Electric starter		24 Electric starter	
Starting motor capacity	V-KW	24/11 ×2		24/11 x2	
Charging generator capacity	V-A	28/95		28/95	
Battery capacity	V-Ah	12/150 ×4		12/150 ×4	
Engine fuel consumption	g/KW.h	186	195	186	195
Genset					
Fuel type		Diesel: 0#(summer)-10#(winter)-35#(cold)		Diesel: 0#(summer)-10#(winter)-35#(cold)	
Panel type		DSE7320		DSE7320	
Noise level (1m)	dB(A)	70		70	
Fuel tank capacity	L	1500		1500	
Air filter intake capacity	m³/S	1.51	1.75	1.84	1.97
Exhaust temperature	℃	⩽450		⩽450	
Silencer exhaust capacity	m³/S	4.22	4.89	5.14	5.50
Overall dimension	mm	20'ISO Standard cabinet 6058×2438×2591		20'ISO Standard cabinet 6058×2438×2591	
Net weight	kg	13900		14500	

TECHNICAL DATA

Generator set		XDE2000C		XDE2350C	
Rated frequency	Hz	50	60	50	60
Prime power	kVA	1800	2000	2000	2300
	KW	1440	1600	1600	1840
Standby power	kVA	2000	2200	2200	2530
	KW	1600	1760	1760	2020
Rated voltage	V	400/230	416/240	400/230	416/240
Rated current	A	2598	2776	2887	3192
Rated rotation speed	r/min	1500	1800	1500	1800
Generator					
Generator manufacturer		EPIOR		EPIOR	
Generator type		XFS1800		XFS2150	
Pole No.		4		4	
Excitation mode		PMG(with e-AVR)		PMG(with e-AVR)	
Power factor	COSΦ	0.8(lag)		0.8(lag)	
Insulation grade		H		H	
Engine					
Engine manufacturer		EPIOR		EPIOR	
Engine type		XD12V171ZLCR		XD16V171ZLCR	
Structure type		12-cylinder,V-type,90 degrees, water-cooled, 4-stroke, turbocharged,water-air intercooled		16-cylinder,V-type,90 degrees, water-cooled, 4-stroke, turbocharged,water-air intercooled	
Bore x stroke	mm	171×210		171×210	
Displacement	L	57.87		77.16	
Compression ratio		15.5∶1		15.5∶1	
Rated power	KW	1738	1914	1980	2228
Engine cooling water capacity	L	150		180	
Lubricating system		Pressure splashed		Pressure splashed	
Lube oil brand		SAE 15W-40 or API CF-4		SAE 15W-40 or API CF-4	
Lube capacity	L	(Max)236 ~ (Min)192		(Max)288 ~ (Min)209	
Starting system	V	24 Electric starter		24 Electric starter	
Starting motor capacity	V-KW	24/11 x2		24/11 x2	
Charging generator capacity	V-A	28/95		28/95	
Battery capacity	V-Ah	12/150 ×4		12/150 ×4	
Engine fuel consumption	g/KW.h	186	195	186	195
Genset					
Fuel type		Diesel: 0#(summer)-10#(winter)-35#(cold)		Diesel: 0#(summer)-10#(winter)-35#(cold)	
Panel type		DSE7320		DSE7320	
Noise level (1m)	dB(A)	70		72-75	
Fuel tank capacity	L	1500		1500	
Air filter intake capacity	m³/S	2.04	2.24	2.32	2.61
Exhaust temperature	℃	⩽450		⩽450	
Silencer exhaust capacity	m³/S	5.70	6.28	6.50	7.31
Overall dimension	mm	20'ISO Standard cabinet 6058×2438×2591		20'ISO Standard cabinet 12192×2438×2896	
Net weight	kg	14800		13200	

TECHNICAL DATA

Generator set		XDE2550C		XDE2900C	
Rated frequency	Hz	50	60	50	60
Prime power	kVA	2250	2600	2500	2900
	KW	1800	2080	2000	2320
Standby power	kVA	2500	2860	2750	3200
	KW	2000	2300	2200	2550
Rated voltage	V	400/230	416/240	400/230	416/240
Rated current	A	3248	3609	3609	4025
Rated rotation speed	r/min	1500	1800	1500	1800
Generator					
Generator manufacturer		EPIOR		EPIOR	
Generator type		XFS2250		XFS2500	
Pole No.		4		4	
Excitation mode		PMG(with e-AVR)		PMG(with e-AVR)	
Power factor	COSΦ	0.8(lag)		0.8(lag)	
Insulation grade		H		H	
Engine					
Engine manufacturer		EPIOR		EPIOR	
Engine type		XD16V171ZLCR		XD20V171ZLCR	
Structure type		16-cylinder,V-type,90 degrees, water-cooled, 4-stroke, turbocharged,water-air intercooled		20-cylinder,V-type,90 degrees, water-cooled, 4-stroke, turbocharged,water-air intercooled	
Bore x stroke	mm	171×210		171×210	
Displacement	L	77.16		96.45	
Compression ratio		15.5∶1		15.5∶1	
Rated power	KW	2200	2514	2426	2745
Engine cooling water capacity	L	180		210	
Lubricating system		Pressure splashed		Pressure splashed	
Lube oil brand		SAE 15W-40 or API CF-4		SAE 15W-40 or API CF-4	
Lube capacity	L	(Max)288 ~ (Min)209		(Max)340 ~ (Min)245	
Starting system	V	24 Electric starter		24 Electric starter	
Starting motor capacity	V-KW	24/11 ×2		24/11 x2	
Charging generator capacity	V-A	28/95		28/95	
Battery capacity	V-Ah	12/150 ×4		12/200 ×6	
Engine fuel consumption	g/KW.h	186	195	186	195
Genset					
Fuel type		Diesel: 0#(summer)-10#(winter)-35#(cold)		Diesel: 0#(summer)-10#(winter)-35#(cold)	
Panel type		DSE7320		DSE7320	
Noise level (1m)	dB(A)	72-75		75-78	
Fuel tank capacity	L	3000		3000	
Air filter intake capacity	m³/S	2.54	2.95	2.84	3.22
Exhaust temperature	℃	⩽450		⩽450	
Silencer exhaust capacity	m³/S	7.11	8.25	7.96	9.00
Overall dimension	mm	40'ISO Standard cabinet 12192×2438×2896		40'ISO Standard cabinet 12192×2438×2896	
Net weight	kg	26400		30600	

TECHNICAL DATA

Generator set		XDE3100C		XDE3500C	
Rated frequency	Hz	50	60	50	60
Prime power	kVA	2750	3100	3000	3500
	KW	2200	2480	2400	2800
Standby power	kVA	3030	3400	3300	3850
	KW	2425	2730	2640	3080
Rated voltage	V	400/230	416/240	400/230	416/240
Rated current	A	3969	4302	4330	4858
Rated rotation speed	r/min	1500	1800	1500	1800
Generator					
Generator manufacturer		EPIOR		EPIOR	
Generator type		XFS2800		XFS3125	
Pole No.		4		4	
Excitation mode		PMG(with e-AVR)		PMG(with e-AVR)	
Power factor	COSΦ	0.8(lag)		0.8(lag)	
Insulation grade		H		H	
Engine					
Engine manufacturer		EPIOR		EPIOR	
Engine type		XD20V171ZLCR		XD20V171ZLCR	
Structure type		20-cylinder,V-type,90 degrees, water-cooled, 4-stroke, turbocharged,water-air intercooled		20-cylinder,V-type,90 degrees, water-cooled, 4-stroke, turbocharged,water-air intercooled	
Bore x stroke	mm	171×210		171×210	
Displacement	L	96.45		96.45	
Compression ratio		15.5∶1		15.5∶1	
Rated power	KW	2668	3016	2860	3313
Engine cooling water capacity	L	210		210	
Lubricating system		Pressure splashed		Pressure splashed	
Lube oil brand		SAE 15W-40 or API CF-4		SAE 15W-40 or API CF-4	
Lube capacity	L	(Max)340 ~ (Min)245		(Max)340 ~ (Min)245	
Starting system	V	24 Electric starter		24 Electric starter	
Starting motor capacity	V-KW	24/11 x2		24/11 x2	
Charging generator capacity	V-A	28/95		28/95	
Battery capacity	V-Ah	12/200 ×6		12/200 ×6	
Engine fuel consumption	g/KW.h	186	195	186	195
Genset					
Fuel type		Diesel: 0#(summer)-10#(winter)-35#(cold)		Diesel: 0#(summer)-10#(winter)-35#(cold)	
Panel type		DSE7320		DSE7320	
Noise level (1m)	dB(A)	75-78		75-78	
Fuel tank capacity	L	3000		3000	
Air filter intake capacity	m³/S	3.13	3.53	3.35	3.88
Exhaust temperature	℃	⩽450		⩽450	
Silencer exhaust capacity	m³/S	8.75	9.90	9.38	10.87
Overall dimension	mm	40'ISO Standard cabinet 12192×2438×2896		40'ISO Standard cabinet 12192×2438×2896	
Net weight	kg	31600		31600	

APPLICATION CASE

China's ministry of commerce

China's Ministry of Commerce Aid to
Sri Lanka Project
4.8MW: 2.4MW*2 sets XDE3500C

Petro China data center(Karamay)

4.8MW: 2.4MW*2sets XDE3500E3*2

Nuclear power station peripheral

SECURITY PROJECT OF CGN
XDE900E3 *3 sets
XD12V171ZLA-1 *4 sets

Shanxi jiafeng cloud data center of China unicom

10MW: 2MW*5 sets XDE2500EH3-TX

China mobile Zhengzhou branch

7.2MW: 1.8MW*4 sets XDE2350C3-TX

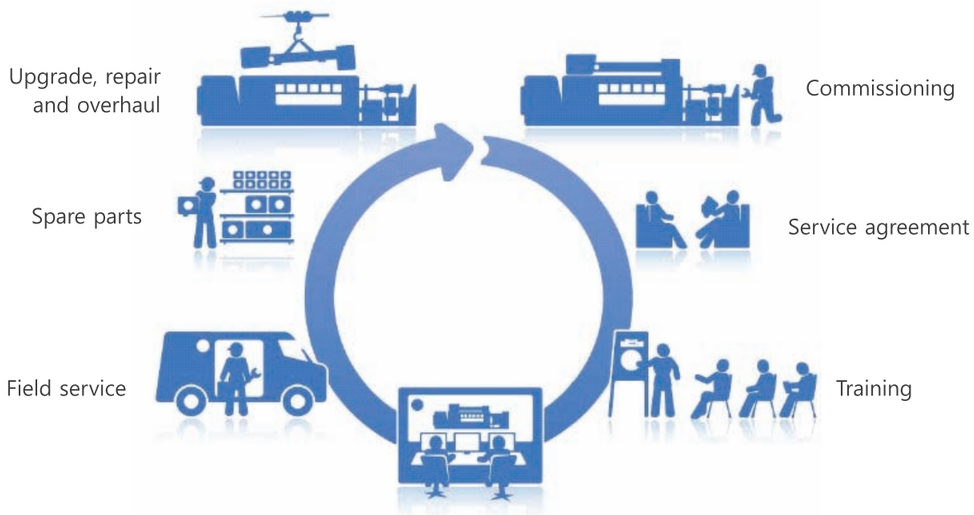
Black-start project of Xinjiang qiya

ELECTROLYTIC ALUMINUM THERMAL POWER PLANT
36MW: 2.4MW*15 sets XDE3100EH3

EPIOR SERVICE AND TECHNICAL SUPPORT

Service

Ensure reliable gas power solutions and long lifecycle.
We offer round-the-clock maintenance solutions to ensure gas generating units operate at their best condition.



Contract	Spare parts	Onsite service	Training
Debugging and installation agreement Parts supply agreemen After sales service agreement	Original factory spare parts Warranty spare parts Emergency spare parts	Install Debugging Maintenance	Basic theory Practical operation and maintenance Fault handling

Technical Support

Our detailed analysis of your needs, combined with our extensive research and development experience, ensures that the ideal solution is designed, developed and delivered.
After product delivery Epior provide a full range of technical support to ensure that the units can achieve its best value in any life cycle.