

karloskar
powergen

OPTIPRIME

ADVANCED MANUFACTURED GENSETS

HYBRID GENSET

10 kVA + 4 kW to 40 kVA + 16kW



Better power for a
limitless
Tomorrow

Cleaner . Reliable . Flexible



A RICH HERITAGE OF OVER A CENTURY OF ENGINEERING EXCELLENCE.

Kirloskar powergen generating sets prioritize user experience, delivering exceptional features and benefits. Streamlined installation and enhanced dependability to expedited service, reduced maintenance costs, and optimized performance.

Kirloskar Powergen sets itself apart with groundbreaking engineering that establishes new industry benchmarks.

limitless **POTENTIAL, SUSTAINABLE PRACTICES**

Our state-of-the-art manufacturing facility embodies our commitment to sustainable practices.

We partner with nature to power the facility itself, transforming waste into valuable resources.

This focus on sustainability inspires both our workforce and surrounding communities.

It's here, where cutting-edge technology meets exceptional skills,

that we engineer solutions to empower limitless possibilities.



Discover our Plant with a
QR Code Scan.



OPTIPRIME

ADVANCED MANUFACTURED GENSETS

HYBRID GENSET



THE VERSATILE HYBRID POWER GENSET SOLUTION



ATM



Laboratory



Telecom



House



Shops

TECHNICAL SPECIFICATIONS

GENSET

Prime Rating at Rated RPM [as per ISO8528] ¹	kVA	10
	kW	8
Maximum Rating for 1 Hour (DG+Battery)	kVA	14
Voltage / Frequency / Power Factor	-	230 / 50 / 0.8
Noise Level	dB(A)	Max 70 @ 7 Mtr.
Fuel Consumption [#]	At 100% Load	2.75
	At 75% Load	2.06
	At 50% Load	1.60
	At 25% Load	1.15
Fuel Tank Capacity [Standard DG Set]	Ltrs	40
Weight of Genset with Canopy [Approx.] ^{\$}	Dry	950
	Wet	1000
Overall Dimensions of Genset [^]	Length	2300
	Width	700
	Height (Inside Silencer)	1050
	With Solar Panel Up	1180
	With Solar Panel Down	1490

ENGINE

Engine Model	-	2R550 NA
Rated Output [Prime Continuous Rating as per ISO 8528-1]	kW	10.3
	HP	14
No. of Cylinders	No.	2
Cubic Capacity ²	Ltr.	1.09
Lube Oil change period	Hrs.	500
Coolant Capacity	Ltr.	4
Block Loading Capacity	%	100%

ALTERNATOR

Insulation Class	-	H
Alternator Efficiency [at 100% Load] 0.8 pf [*]	%	83.8
Max Voltage Dip at Full Load 0.8 pf Lag	No.	2
Max time to build up Rated Voltage at Rated RPM	Ltr.	1.09

[^] Tolerances Apply

[#] With 0.845 Specific Gravity of diesel (10% Tolerance)

^{\$} These weight are for handling & transportation only, +5% tolerance apply

^{*} Efficiency of Alternator as per standards IEC 60034-1

For Site Conditions other than standard operating conditions consult Kirloskar Oil Engines Ltd.

INVERTER

Capacity	kVA	4
Battery Capacity	Ah	200
Battery System Voltage	V	51.2
Battery Type	-	LFP
Battery Management and Protection	-	Yes

PANEL

Controller Make	DSE
Operating Voltage	12

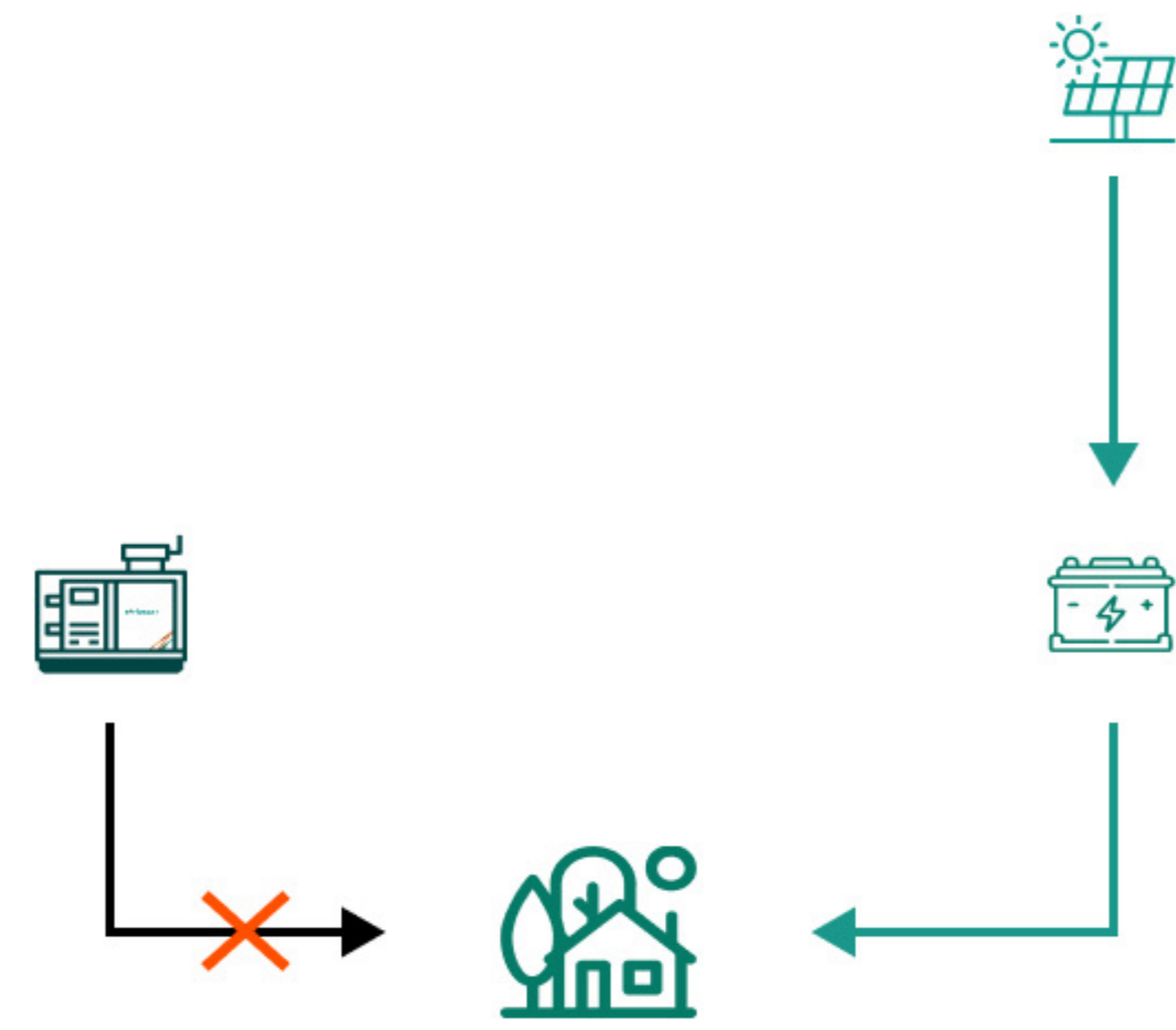
SOLAR SYSTEM -OPTIONAL

Capacity	W	160-300
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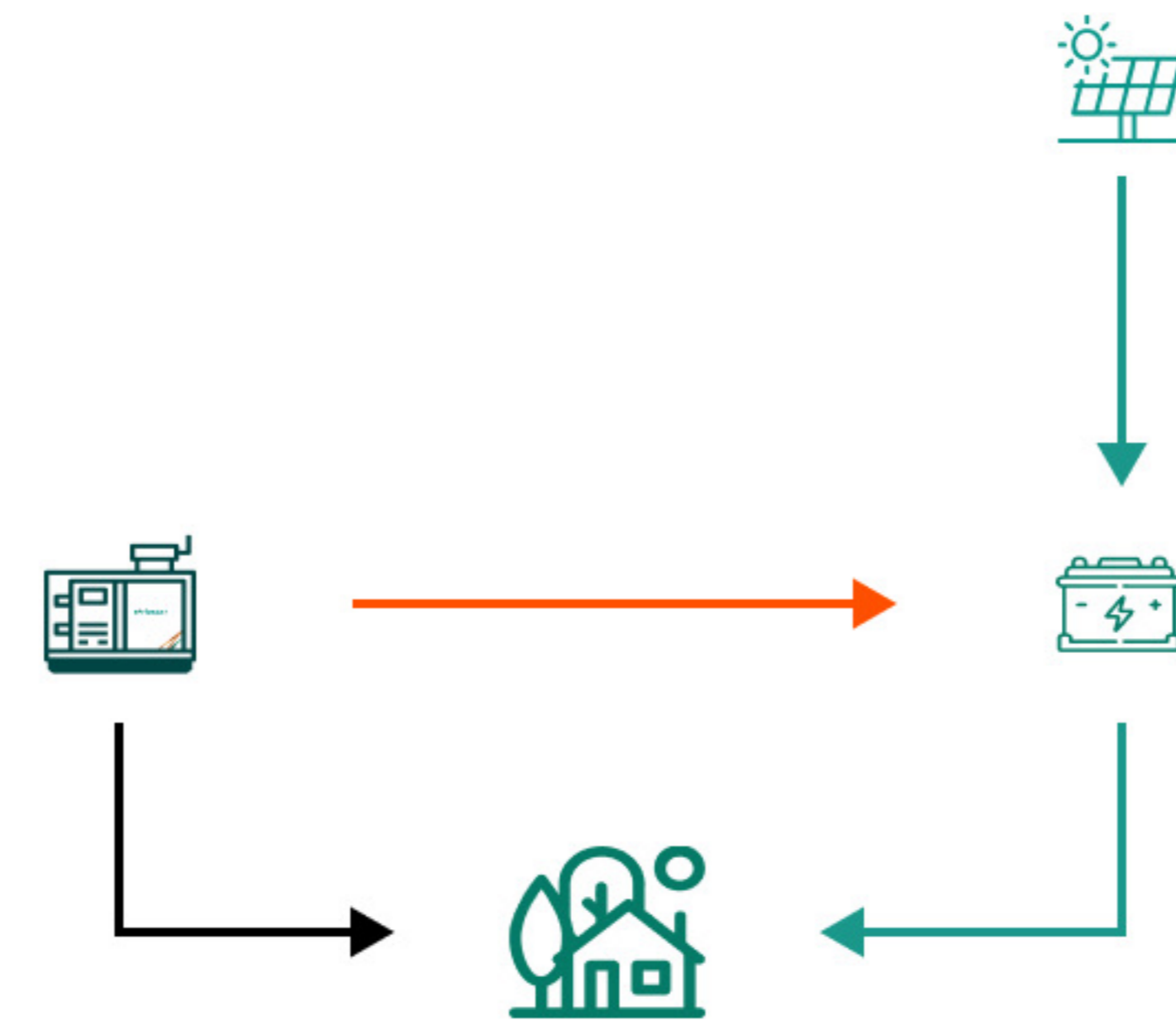
OPTIPRIME

ADVANCED MANUFACTURED GENSETS

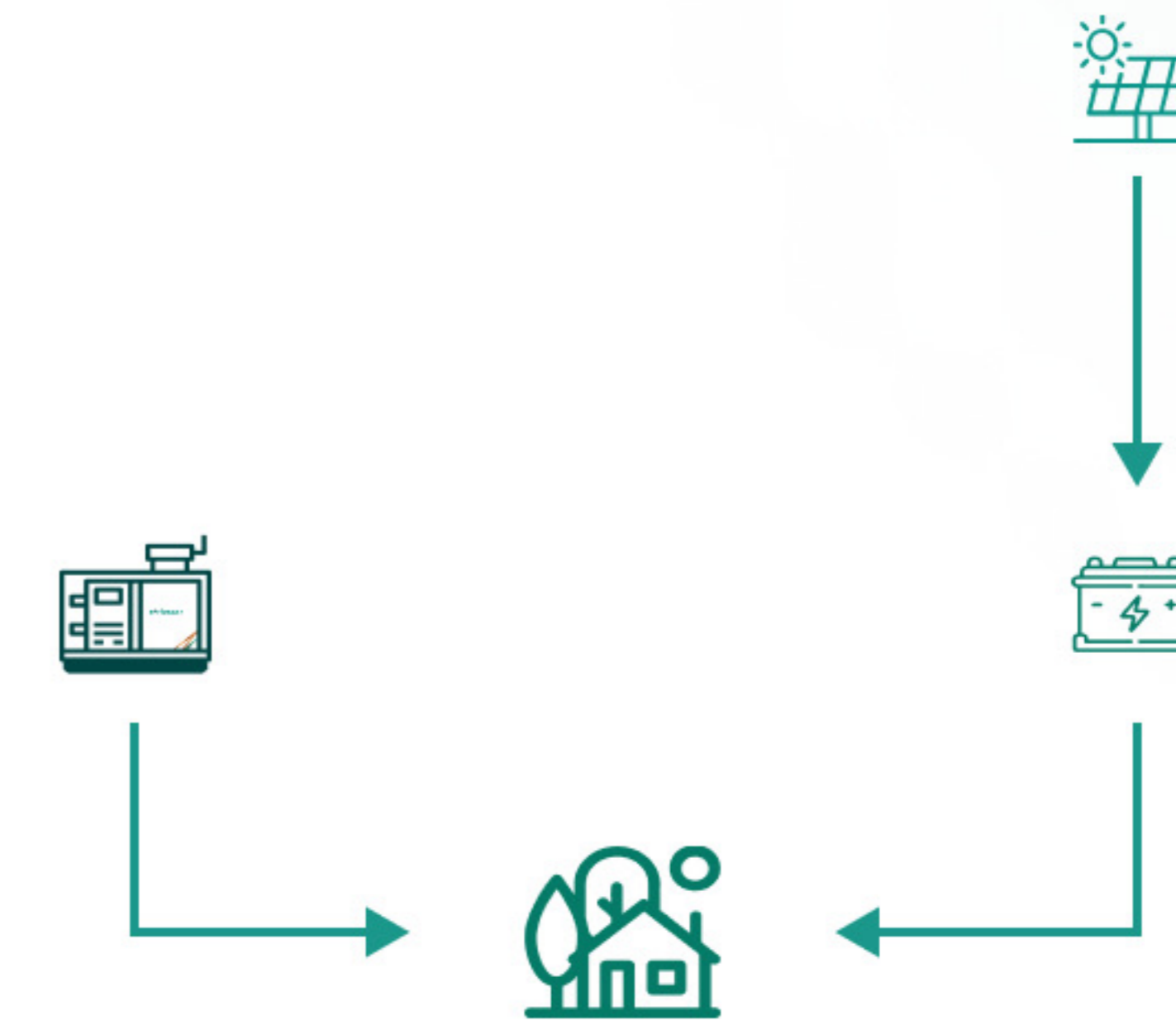
HYBRID GENSET



Low



Medium



High

Load

Power Required

Load Fulfilled By

Upto 4kW

Upto 8kW

Upto 10+4kW*

Battery Grid

DG + Battery Charging

DG + Battery Grid

Hybrid Solution Equipped with 10 kVA Diesel Genset can server loads up to 14kW

*For Limited Time

- Whenever SOC goes to 30%, DG will automatically start to charge the battery.
- Battery can charge through EB (Electricity Board) as well as Solar Panel (Optional)



OPTIPRIME

ADVANCED MANUFACTURED GENSETS

HYBRID GENSET

Integrates multiple Energy Sources

Compatible with traditional fuel generators such as diesel, battery, and renewable sources like solar power

Fuel efficiency and cost reduction

Minimizes diesel engine runtime, optimized fuel consumption and hassle-free maintenance

Sustainable Green Technology

Reduces carbon dioxide emissions, and operates with ultra-low noise levels

Compact Footprint & Easy Transportability

Optimized footprint and effortless transportation, even in constrained or remote environments

Optimized Operation & Maintenance

Extended service intervals and reduced maintenance downtime for enhanced reliability

FEATURES



Kirloskar
powergen

OPTIPRIME
HYBRID SERIES

KIRLOSKAR POWERGEN PRODUCT PORTFOLIO

3 kW - 10 MW / 12500 kVA

Kirloskar Powergen Advanced Manufactured Gensets

kVA	Fuel	Emission Norms	kVA	Fuel	Emission Norms	Model No.	kVA	Fuel	Emission Norms	Model No.	
MOBILE & STATIONARY			HHP, OPTIPRIME & CUSTOM SOLUTIONS				UHHP, OPTIPRIME & CUSTOM SOLUTIONS				
3 kW	Petrol	CPCBIV+	125 kVA	Diesel	CPCBIV+	Dual Core 4R810	2500 kVA	Diesel	Stack	Dual Core DV16	
4 kW	Petrol	CPCBIV+	250 kVA	Diesel	CPCBIV+	Dual Core 4K1080	2500 kVA	Diesel	Stack	Dual Core K12	
5 kW	Petrol	CPCBIV+	320 kVA	Diesel	CPCBIV+	Dual Core 6K1080	2500 kVA	Diesel	CPCBIV+/Stack	Quad Core DV10	
3.5 kVA	Diesel	CPCBIV+	400 kVA	Diesel	CPCBIV+	Dual Core 6K1080	3000/3300 kVA	Diesel	Stack	Dual Core K12	
5 kVA	Diesel	CPCBIV+	500 kVA	Diesel	CPCBIV+	Dual Core 6K1080	3000 kVA	Diesel	CPCBIV+/Stack	Quad Core DV12	
7.5kVA	Diesel	CPCBIV+	500 kVA HD	Diesel	CPCBIV+	Dual Core SL90	4000 kVA	Diesel	CPCBIV+/Stack	Octacore PV6	
10 kVA	Diesel	CPCBIV+	500 kVA HD	Diesel	CPCBIV+	Quad Core 4K1080	4000 kVA	Diesel	CPCBIV+/Stack	Octacore DV8	
15 kVA	Diesel	CPCBIV+	640 kVA	Diesel	CPCBIV+	Dual Core SL90	4000 kVA	Diesel	Stack	Quad Core DV16	
15 kVA	Ethanol	CPCBIV+	700 kVA	Diesel	CPCBIV+	Dual Core SL90	5000 kVA	Diesel	Stack	Quad Core DV16	
12.5 kVA	PNG	CPCBIV+	1000/1010 kVA	Diesel	CPCBIV+/Stack	Dual Core PV6	5000 kVA	Diesel	Stack	Quad Core K12	
15 kVA	PNG	CPCBIV+	1000/1010 kVA	Diesel	CPCBIV+/Stack	Quad Core 6K	6000 / 6600 kVA	Diesel	Stack	Quad Core K12	
NATURAL GAS			1000/1010 kVA	PNG	CPCBIV+/Stack	Dual Core DV12	8000 kVA	Diesel	Stack	Quad Core K12 (2026)	
25/30 kVA	PNG	CPCBIV+	1000/1010 kVA	PNG	CPCBIV+/Stack	Quad Core DV8	10000 kVA	Diesel	Stack	Quad Core K16 (2027)	
62.5 kVA	PNG	CPCBIV+	2000 kVA	PNG	CPCBIV+/Stack	Quad Core DV12	Powergen HHP & Integrated Project Solutions				
82.5 kVA	PNG	CPCBIV+	1250 kVA	Diesel	CPCBIV+/Stack	Dual Core DV10	2 MW / 2500 kVA	Diesel	Stack	Industrial Power Systems	
125 kVA	PNG	CPCBIV+	1250 kVA	Diesel	CPCBIV+/Stack	Quad Core SL90	4 MW / 5000 kVA	Diesel	Stack	Industrial Power Systems	
250 kVA	PNG	CPCBIV+	1400 kVA	Diesel	CPCBIV+/Stack	Quad Core SL90	6 MW / 7500 kVA	Diesel	Stack	Industrial Power Systems	
320 kVA	PNG	CPCBIV+	1500 kVA	Diesel	CPCBIV+/Stack	Dual Core DV12	8 MW / 10000 kVA	Diesel	Stack	Industrial Power Systems	
500 kVA	PNG	CPCBIV+	2000 kVA	Diesel	CPCBIV+/Stack	Dual Core DV16	10 MW / 12500 kVA	Diesel	Stack	Industrial Power Systems	
			2000 kVA	Diesel	CPCBIV+/Stack	Quad Core PV6					



SHAPING THE FUTURE.
DELIVERING POWER GLOBALLY.

INGENIOUS DESIGN.
UNMATCHED PERFORMANCE.

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BETTER
POWER
FOR A

limitless

TOMORROW

Stamp of
Authorised
Representative

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