



THE POWER OF BIG IN SMALL

Gensets packed with ground-breaking technology in ISO 20 ft. marine containers

RELIABLE | MOBILE | SILENT | FLEXIBLE | DURABLE | GLOBAL



**Unleashing High Power
from a Compact Cube**



POWER-PACKED COMPACT DESIGN

The generator unit is housed in a 20 ft. ISO container. With space at a premium, the compact yet robust **Cube20** delivers optimal, economical power in lowest foot print than any other generator set in the industry.

POWERED BY

 **Perkins**[®]

Diesel Power

BUILT FOR EXTREME ENVIRONMENTS

The new Cube20 is ideal for long-term power projects for a variety of on-site prime power applications such as powering remote locations, ports/jetties, construction, industrial plants, refineries or mining operations. Whether paralleled with the utility or isolated from the grid, these units are reliable and designed to be easy to use.

PERKINS - THE HEART OF CUBE20

Cube20 is powered by Perkins engines. With over 80 years of experience, Perkins is a pioneer in diesel engines with service outlets across the globe. Their low power-to-weight ratio provided the inspiration for the design of the Cube20. Additional features like high block loading capacity, low fuel consumption and long maintenance intervals makes Cube20 a great machine at the core.

BREEZE IN THE TROPICS

The cooling system is engineered to meet ambient clearance of 50°C at continuous rating. The top hot air discharge gives the Cube20 flexibility for multiple installations at a single location.

THE GLOBAL TROTTER

To meet today's diverse energy needs, the versatile Cube20 comes with an option of **switching between 50 and 60 Hz**, with a wide voltage range for continuous, prime or standby applications. The Cube20 can work globally and still be local.

GREATER MOBILITY WITH LOWER TRANSPORTATION COST

Packaged in a standard ISO container, the Cube20 is ideal for marine transportation across seas, borders and regions. The container can be shipped around the world like a regular container, which means lower freight and transportation costs.



The Cube20

All the components of the Cube20 are designed and manufactured to work together in a compact container and provide reliable power for your project

Container

- Standard ISO 20' container (Standard cube)
- Standard 4-point lift with side ladders
- Stainless steel external hardware
- Flushed door handles to avoid overhang damages in transit
- Roof structure allows extension of exhaust pipe up to 6 meters
- External topping points and drain points for fuel, oil and water
- External sight glass for fuel level, control view, and engine compartment

Cooling System

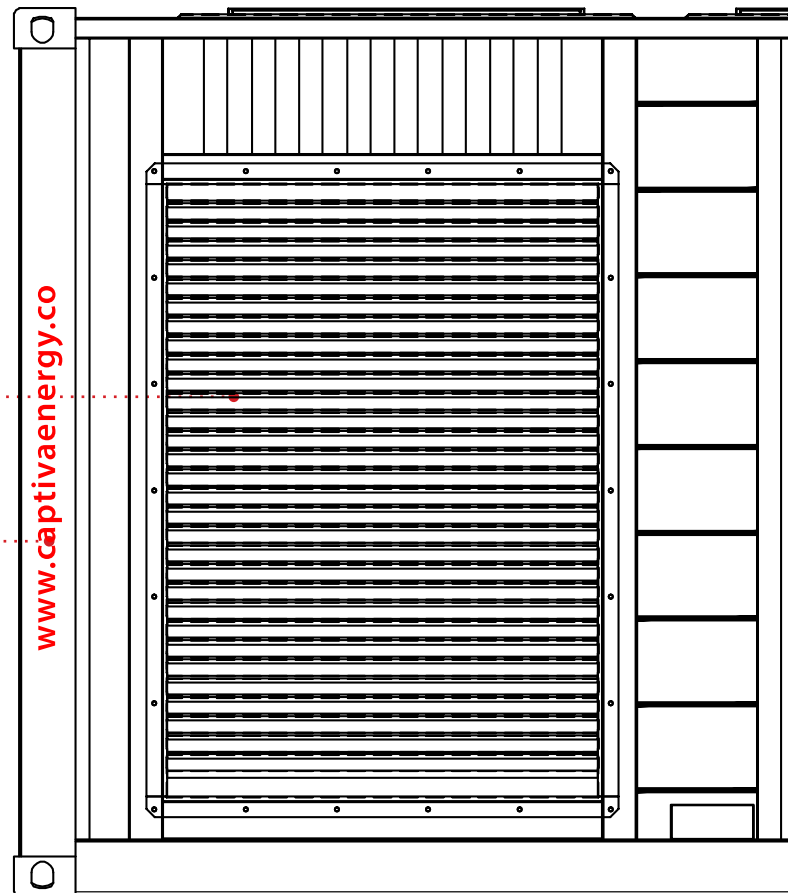
- High ambient clearance of 50°C
- **The special coolant needs to be replaced only every 3 years**
- External sight glass for coolant level
- Hersite Coated fins protect against marine environment

Generator Set

- **Option of dual frequency - 50 or 60 Hertz**
- Heavy-duty battery
- Anti-vibration pads reduce resonance
- Customized colour options

Engine

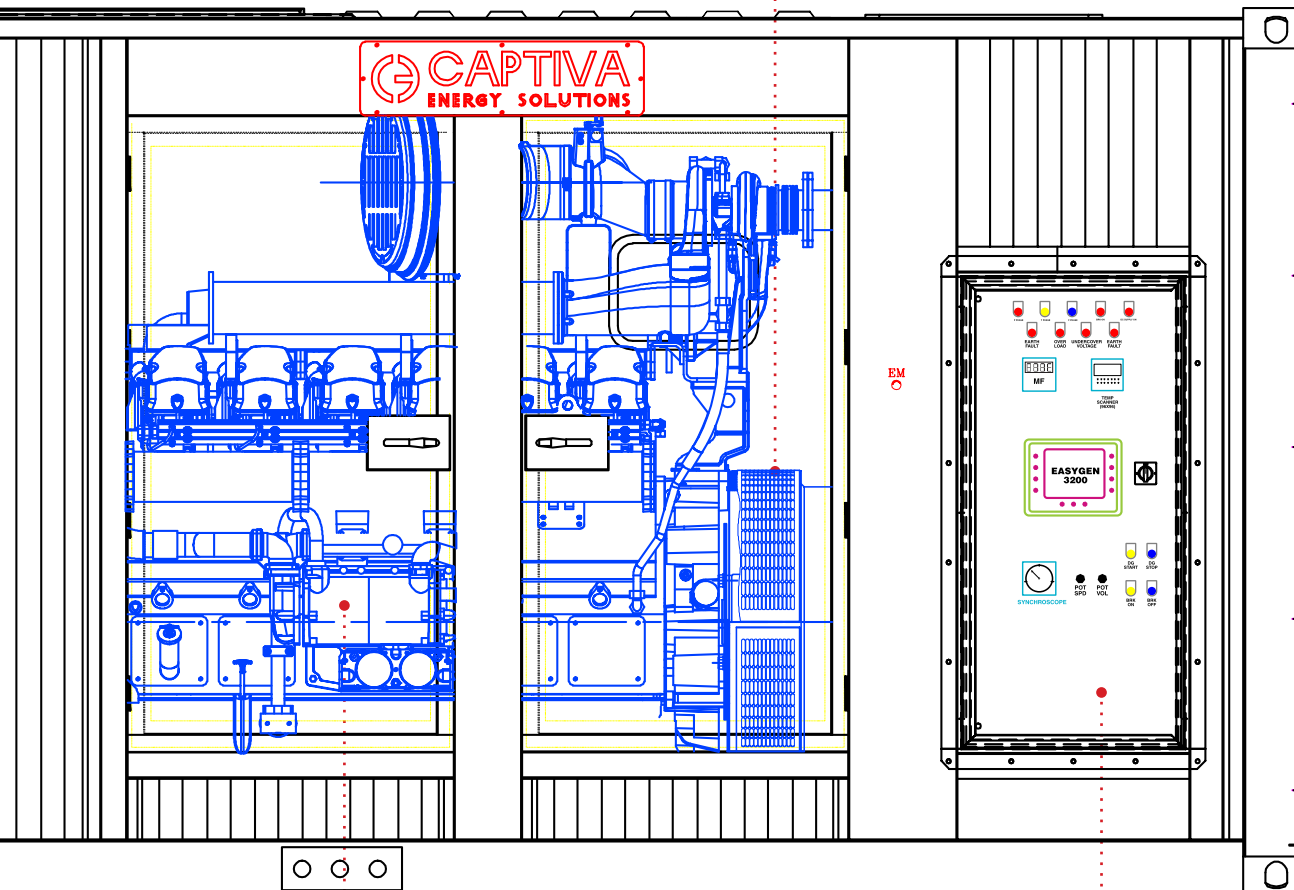
- Robust four stroke Perkins 4000 series diesel engine
- Better block loading capacities
- Higher power density
- Better derate capability
- Higher average loading compared (Prime 80%)
- Dual actuator helps in running of the engines at lesser load (Up to 30%)
- Exhaust monitoring system



• Alternator



- Highly efficient - Core designed with high end software to optimize magnetic and ventilation circuit
- Leroy Somer Patented AREP Excitation System - Enhancing reliability globally for over 30 years
- Highest sustained short circuit withstand capability
- Lower susceptibility to non-linear loads
- Class H Insulation, VPI & Epoxy Gel coating on windings ensures outstanding mechanical & dielectric strength.
- Higher power density (kVA/Kg) allows lower footprint
- Winding inserted RTDs and BTD allows immediate problem detection
- Inbuilt space heater and Epoxy coating allows sustenance in coastal environments



Control System •

- Versatile controller for operation, parameter reading, protection
- Mode selection capability - Auto/Manual/Remote
- Remote controller access
- Voltage regulation, engine & alternator protection, interface & isochronous governing
- Data logging capability
- Power management system
- Battle Mode - In case of complete manual override



Features of the Cube20

The Cube20 offers many advantages in a rugged, compact package

■ Ergonomic

- Easy access for installation, operation and monitoring
- Body mounted control panel to readily adjust parameters and settings
- External sight glasses to check fuel and coolant levels
- Multiple access doors for ease of maintenance
- External fuel ports ensure quick connection to remote fuel storage tank
- Provides warnings and shutdowns for various features including low fuel and coolant, to improve uptime
- Versatile controller for operation, protection, synchronization along with a host of other features

■ Transportability

- Stackable ISO 20' container (low cube) saves on shipping and storage costs
- Cost-effective solution when handling and transporting across regions and borders
- Standard 4-point lift
- Inbuilt ladders for easy access
- Flush doors, hinges and louvers
- Lighter than competition, thus gives more ease in handling and saves money in transport

■ Durable

- Weatherproof and soundproof to meet stringent noise level requirements
- Mounted on anti-vibration system to lower resonance
- Fitted with air inlet filters to safeguard against dust and sand ingress



■ Flexible

- Option of dual frequency to provide higher utilization
- Suitable for compact installations with top hot air discharge
- Designed to operate in hot and harsh environments
- Configurable for multiple-set, parallel installations and grid connections

■ Economical

- Low fuel consumption reduces cost
- 500 hours of oil/filter change without expansion tank gives edge over closest competitor

■ Protection

- Lockable side doors with internal panic release
- Emergency stop button on side of the container for quick shutdown
- Mechanical and electrical protection
- 4-pole air circuit breaker with inbuilt protections

■ Cleaner, Greener & Quieter

- Lowest noise level in its class
- Emission compliance to international regulated standards
- Inbuilt silencer to muffle exhaust sound





**High Power
Low Noise
Smallest Size**



Cube20 Model	Prime Rating		Frequency	Switchable	Engine		Alternator		dBA @ 1mt.	Dimensions (MM)			Weight (KG)	
	kVA	KW			Make	Model	Make	Model		75% Load	L	W	H	Dry
CC20-0.8MW-S	1010	808	50/60 Hz	Yes	Perkins	4008 TAG2	Leroy Somer	LSA 49.1	85 (50 Hz) 88 (60 Hz)	6058	2438	2591	13050	13770
CC20-1MW	1250	1000	50 Hz	No	Perkins	4012 46TAG0A	Leroy Somer	LSA 50.2 M6	88 (50 Hz)	6058	2438	2591	14350	15070
CC20-1MW-S	1250	1000	50/60 Hz	Yes	Perkins	4012 46TWG2A	Leroy Somer	LSA 50.2 M6	82 (50 Hz) 87 (60 Hz)	6058	2438	2591	14620	15470
CC20-1.2MW-S	1500	1200	50/60 Hz	Yes	Perkins	4012 46TAG2A	Leroy Somer	LSA 50.2 L8	89 (50 Hz) 91 (60 Hz)	6058	2438	2591	15220	16070





Shaping the future with technology you can rely on and support you can trust.

Cube20 is already in use at various challenging environments. Our supplies to strategic defence entities, who have the highest level of quality acceptance standards, is a great testimony to its reliability and strength.



After Sales Service

While our gensets are practically maintenance free, periodic preventive maintenance is important. Being a single window service provider, we have a team of motivated service personnel, who are well trained on the mechanical, electrical and basic software of the genset and are available around the clock.

Perkins Platinum Protection

We provide solutions that create value for our customers and distributors. Product support is an important part of this mission. Owners of Perkins engines can now purchase a Perkins Platinum Protection through the Perkins Distribution Network. A Perkins Platinum Protection covers the cost of replacement of defective engine parts, repair time, labour and travel time. Other benefits include:

- Peace of mind
- Protection against unexpected repair costs
- Global support from experienced Perkins distributors

A Perkins Platinum Protection can be bought at any time during your standard warranty - Even on the last day!

Cost Effective & Flexible Coverage

You can now purchase up to 5 years cover for your Perkins engine and protect yourself against the risk of unexpected repair costs.

24x7 CUSTOMER SUPPORT
1800 212 7600

To know about our exciting rental & O&M plans, please feel free to get in touch with us



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