

21kW_{60Hz} 17.5kVA_{50Hz}

norpro[®]

A Global Power Solutions Company

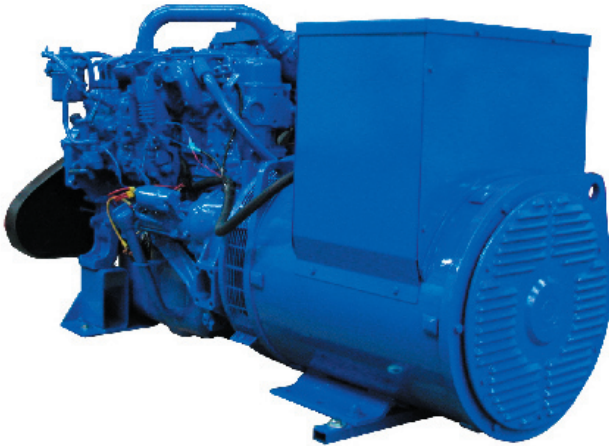
Commercial Marine Series

10/07/12

21 CMI

Standby Rating 60Hz: 21kW

Prime Rating 60Hz: 18.9kW



Standard Features:

- Analog 200 Control Panel * see next page for details
- Marine Grade Epoxy Paint (Grey - Std.)
- Oil Drain Kit (valve type w/safety lock)
- Washable Long-Life Air Filter
- ABS Molded Belt Guard
- Rubber Isolation Mounts
- Single Lifting Point
- 12 Volt Breaker
- Hand Built in the USA
- Prototype and Production Tested
- Meets or Exceeds Tier 3 Nonroad Emissions Regulations
- 5 Year 5,000 Hour Warranty

Philosophy at Norpro

- Build a reliable product for the harshest of operating environments.
- Supply a product which is simple to operate and easy to maintain
- Use the best technology and materials available
- Provide the best value in the industry

More For Your Money

Norpro has been a leader in generator technology since we began operations in 1986. We strive to provide the best in terms of durability, performance, and value in the generator market. Using only world-class engines and components, we hand build the highest quality generators possible. By using high grade materials including, epoxy paint, stainless hardware, and powder coat, you can rest assured your generator will look good for many years to come. Our sound shields were developed using input from the aerospace industry. The results speak quietly on their own with sound canceling effects decreasing noise on average by 50%. We are very committed and proud of our product which is why we offer one of the most extensive warranties available. With the support of an experienced warranty representative, and a multi-million dollar inventory, all your generator needs are just a phone call away. Sales and services are handled by factory trained distributors and dealers reaching across the country and around the world. Everything is done to help us meet your needs and exceed your expectations.

Analog 200 Control Panel

- Three gauge panel
- Water temperature, oil pressure, battery voltage
- Hour meter and preheat
- Ten second oil pressure bypass timer
- Emergency shutdowns for high water temp and low oil pressure
- 12-volt breaker protection
- 6.75" x 5.5" x .1875" (L x H x D)
- Black over white ABS faceplate



Complete details

also available on our
website.

Please visit:

www.4norpro.com

Engine Specifications	60Hz	50Hz
Manufacturer	Isuzu	
Engine: model type	4LE	
Cylinder arrangement	4 in-line, 4 cycle	
Displacement cu.in. (cc)	133 (2180)	
Bore and stroke, (in.)	3.34 x 3.77	
Compression ratio	21.5:1	
Rated rpm	1800	1500
Max power at rated rpm (bhp)	28	23.3
Cylinder head material	Aluminum	
Block material	Cast Iron	
Governor type	Mechanical	
Frequency regulation	3-5%	
Air filter type	Replaceable Element	

Engine Electrical System

Ignition system	Electric
Batter charging system voltage (DC)	12V
Battery charging system (amps)	35
Starter system voltage (DC)	12V
Battery recommendation (CCA)	500
Battery voltage (DC)	12V
Starter kW	2.0

Generator Specifications

Type	4 pole
Exciter type	Brushless
Leads: Quantity	4
Voltage regulator	AVR
Insulation Material	H type
Temperature rise	105 c
Bearing type	Sealed
Coupling	Direct Bolt-up
Voltage regulation	1%
Phase type	1
Power factor	1.0
Power rating kW (kVA)	21 (21) 17.5 (17.5)
Mainline breaker (amps) optional	70 60

Generator Ratings

Amps @ 120	175	146
Amps @ 240	87.5	73

Weights and Dimensions

	Length in. (cm)	Height in. (cm)	Width in. (cm)	Dry Weight lbs. (kg)	Wet Weight lbs. (kg)
Open Unit	39.5 (100.5)	25 (63.5)	20 (50.8)	725 (328.9)	735 (333.4)

Stand Alone Fuel Tanks

165 gal./620L	29 (74)	61 (155)	28 (72)	132 (60)	1287 (584)
275 gal./1000L	51 (130)	54 (137)	30 (76)	208 (94)	2133 (968)

Lubrication System	60Hz	50Hz
Type	Full Pressure	
Engine oil capacity w/filter (qts)	8.6	
Oil filter type	Spin-on	

Fuel System

Fuel shutoff solenoid	Electric
Fuel pump priming	Electric
Fuel pump	Electric
Fuel type	#2 Diesel
Fuel pump lift (ft)	3.28
Fuel line supply	5/16
Fuel line return	5/16

Cooling System

Manifold	Dry
Engine coolant capacity (qts)	3.0
Water pump type	Centrifugal
Fan diameter (in.)*	9.5"
Fan & Alternator (hp)*	1
Fan type*	6 Blade Pusher
Fan rotation (from front of engine)	Clockwise

* Used only on sound shield models

Exhaust system

Exhaust type	Dry
Max allowable back pressure (in.hg)	4.9
Exhaust outlet size (in.)	1.25NPT

Air Requirements

Engine combustion air intake requirements (cfm)	67
Generator end cooling requirements (cfm)	220
Sound shield air space requirements (in)	4

Fuel Consumption

100% Load (gph)	1.80
75% Load (gph)	1.41
50% Load (gph)	0.98

Sound Table

dB(A) Without Sound Shield			
Load	100%	75%	50%
3'	84	83	83
10'	81	81	80
21'	78	77	75

OPTIONAL EQUIPMENT

Digitec 300 Controller

- Programmable microprocessor panel
- Engine start up with an automatic preheat system
- Digital display
 - water temperature
 - oil pressure
 - tamper proof hour meter
 - battery voltage
- Safety systems
 - automatic shutdown for low oil pressure
 - high water temperature
 - over speed
 - over frequency
- Three onboard replaceable 40AMP fuses for fuel, crank, and timer outputs
- 5.5" x 4.3" x 2.16" (L x H x D)
- Conform to 12V or 24V operations
- User friendly

Digitec 400 Controller

Includes all features on the Digitec 300

- Most vivid LCD screen available
- Automatic battery recharge
- Real time clock
- Eight digital programmable inputs
- Twenty-five programmable digital outputs
- Automatic shutdown for any discrepancy in:
 - current
 - speed
 - voltage
 - frequency
 - battery levels
- Password protected
- Fully programmable engine exerciser
- 100 event failure log
- Connection for six industry standard analog senders
- Sleep mode to conserve battery
- 5.47" x 4.45" x 2.56" (L x H x D)

Color Options

- Ultra White
- Zodiac Blue
- Midnight Black
- Anthracite Gray
- Soft Silver

Remote Start Panel

- Starting and stopping capabilities from a remote location
- Start/Stop switch
- Unit hourmeter
- 3"H x 6"L ABS plate
- Includes "Y" harness

Fuel Tanks

- Stand alone, UL Listed, double wall tank, 110 gal. (400 L)
- Stand alone, UL Listed, double wall tank, 275 gal. (1000 L)

Dual Station Instrumentation

- Analog panel system
 - Full instrumentation at two locations
 - Start and stop capability

Remote Extension Cables

- Mount your panel virtually anywhere
- Eight or twelve pin rubber molded connectors
- Extension harness, 5' (1.5 m)
- Extension harness, 10' (3 m)
- Extension harness, 20' (6 m)
- Extension harness, 50' (15.2 m)

More Options

- Battery
- Critical muffler kit
- 24V kit
- Interlocking mounts
- Manual transfer switch
- Automatic transfer switch
- Mainline breaker
- Inline style block heater
- Cartridge type air filter
- Electronic governing
- "Y" harness



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