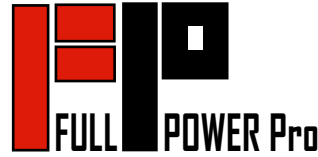


YANMAR SERIES

MANUFACTURED BY: 



MIAMI FLORIDA USA
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Power Range	kW	kVA
Standby	12.5 - 17.6	12.5 - 22
Prime	12.5 - 16	12.5 - 20

MODELS: HY - 20

STANDARD EQUIPMENT

Open Set Model: HY- 20	Accessories Available for HY- 20
<ul style="list-style-type: none"> <input type="checkbox"/> Skid with integral day fuel tank (non-UL) <input type="checkbox"/> Deep Sea 5310 Control Panel <input type="checkbox"/> Dry-type replaceable element air-cleaner <input type="checkbox"/> Industrial muffler <input type="checkbox"/> Battery, battery rack, and cables <input type="checkbox"/> Fuel and lubrication oil replaceable element filters <input type="checkbox"/> Stamford AVR brushless 12-wire reconnectable alternator <input type="checkbox"/> Oil drain hand pump <input type="checkbox"/> Vibration Isolators between base and set assembly <input type="checkbox"/> Main Line Circuit Breaker for overload protection <input type="checkbox"/> Belt driven charging alternator <input type="checkbox"/> Guards for shielding all rotating parts <input type="checkbox"/> Fuel cut-off solenoid and protection switches <input type="checkbox"/> Radiator with pusher fan <input type="checkbox"/> Operation and installation manuals 	<p style="text-align: center;"><u>Mechanical Accessories Offered</u></p> <ul style="list-style-type: none"> <input type="checkbox"/> Weather protective canopy (for Open Set) <input type="checkbox"/> Road towing trailers to DOT standards <input type="checkbox"/> Critical grade exhaust mufflers <input type="checkbox"/> UL double wall fuel tanks to customer specification <input type="checkbox"/> Oil field type skid <input type="checkbox"/> Flexible exhaust connection for open sets <input type="checkbox"/> Oil pressure and engine temperature gauges <input type="checkbox"/> Water Jacket heater <input type="checkbox"/> Extended warranty coverage period <p style="text-align: center;"><u>Generator End Accessories Offered</u></p> <ul style="list-style-type: none"> <input type="checkbox"/> Anti-condensation heaters in alternator <p style="text-align: center;"><u>Electrical and Control Accessories Offered</u></p> <ul style="list-style-type: none"> <input type="checkbox"/> Automatic battery chargers 5 and 10 amp <input type="checkbox"/> NFPA 110 controls and remote annunciator <input type="checkbox"/> Transfer switch and paralleling control panels <input type="checkbox"/> Remote control from PC via hard and/or wireless link <input type="checkbox"/> Digital Timer
<p style="text-align: center;">Sound Attenuated Set Model: HY- 20</p> <ul style="list-style-type: none"> <input type="checkbox"/> Fully sound attenuated enclosure (equipped as open set) <input type="checkbox"/> Powder Painted with finish that exceeds 1000-hr salt test <input type="checkbox"/> Rock wool insulation behind protective barrier <input type="checkbox"/> Curved edges and minimum outside fasteners <input type="checkbox"/> Single lifting point 	

GENERATOR RATINGS

Alternator	Voltage	Ph	Hz	Standby Rating		Prime Rating	
				kW/kVA	Amps	kW/kVA	Amps
BCI 164D	120 / 208	3	60	16.6 / 20.8	58	15.2 / 19.0	53
	127 / 220	3	60	16.6 / 20.8	55	15.2 / 19.0	50
	120 / 240	3	60	16.6 / 20.8	50	15.2 / 19.0	46
	139 / 240	3	60	17.6 / 22.0	53	16.0 / 20.0	48
	277 / 480	3	60	17.6 / 22.0	26	16.0 / 20.0	24
	347 / 600	3	60	17.6 / 22.0	21	16.0 / 20.0	19
BCI 164D Wdng 06	120 / 240	1	60	12.5 / 12.5	52	12.5 / 12.5	52
	120 / 240	1	60	17.6 / 17.6	73	16 / 16	67

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Application Data

Alternator Specifications		Engine Mechanical Specifications	
Manufacturer	Newage Stamford	Manufacturer	Yanmar
Type	4-pole, rotating "eld	Engine model	4TNV88
Exciter type	Brushless, self excited. (PMG option)	Engine type	4-cycle, Naturally aspirated
Leads: quantity, type	12, reconnectable	Cylinder arrangement	4 in line
Voltage regulator	Solid state, volts/Hz and excitation overload protection	EPA Certification :	TIER 2
Insulation:		Displacement, L (cu. in.)	2.19 (134)
Material.....	Class H	Bore and stroke, mm (in.)	88 x 90 (3.46 x 3.54)
Temperature rise.....	150° C , standby	Compression ratio	19.1 : 1
Bearing: quantity, type	Single bearing sealed	Piston speed, m/min. (ft./min.)	324 (1063)
Coupling	Flexible disc	Main bearings: quantity, type	5, replaceable insert
Amortisseur Windings	Full	Rated rpm	1,800
Voltage regulation, no-load to full load	± 1.5%	Max. power at rated rpm, kWm (BHP)	22.5 (30.2)
Unbalanced load capability	100% of rated standby current	BMEP, gross, psi (Bar)	99.5 (6.86)
Load acceptance	Per ISO - 8528	Overall thermal efficiency	34.4%
Peak motor starting kVA: 480 V	(30% dip) self-excited series - 41 kVA	Exhaust Gas Flow, m³ /min (cfm)	5.96 (210.6)
		Exhaust gas temperature °C (°F)	550 (1022)
Engine Electrical Specifications		Frequency regulation, no-load to full load	4.5%
Engine Electrical System (12 Volt) 60 Hz		Governor: Type:	Mechanical
Battery charging alternator:		Make:	Yanmar
Ground (negative/positive).	Negative	Standard:	
Volts (DC).....	12V	y regulation, steady state	±0.4%
Ampere rating.....	40A	Frequency	Fixed
Starter motor rated voltage (DC)	12V	Air cleaner type	Dry
Starter motor rated kW:	1.4Kw		
Battery CCA rating:	780A		
Battery & qty, AH rating:	1 x 66 AH		
Battery Voltage (DC)	12V		
Remote Radiator System		Fuel Consumption 60 Hz	
Exhaust manifold type		Diesel gal/hr (L/hr)	Standby Rating
Connection sizes:		100%	1.72 (6.5)
Water inlet ID hose, mm (in)		75%	1.38 (5.2)
Water outlet ID hose, mm (in)		50%	1.03 (3.9)
Charge air cooling (CAC)	Not Available	25%	0.60 (2.3)
Water inlet ID hose, mm (in)		Diesel gal/hr (L/hr)	Prime Power Rating
Water outlet ID hose, mm (in)		100%	1.57 (5.9)
Static head allowable above engine, ft.H ₂ O (kPa)		75%	1.26 (4.8)
Maximum CAC restriction H ₂ O in.		50%	0.94 (3.6)
		25%	0.55 (2.1)

YANMAR SERIES Model HY-20

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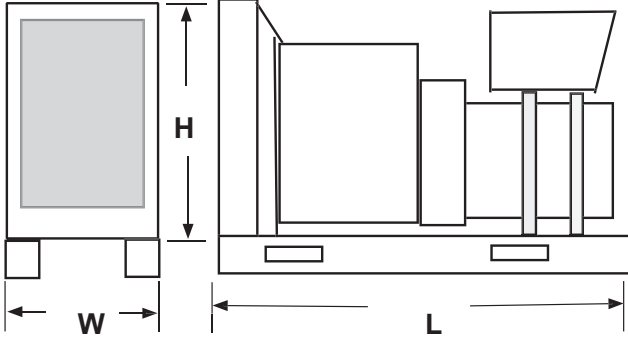
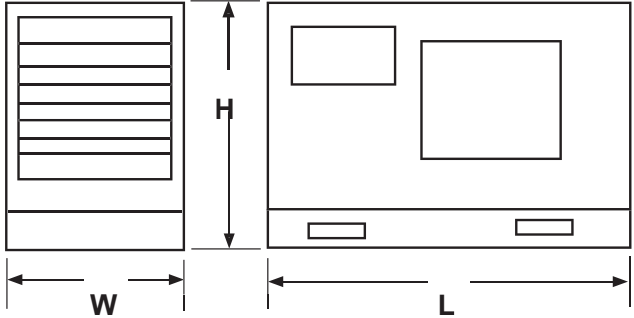


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Application Data

Cooling		Lubrication	
Radiator Systems	60 Hz	Lubricating System	60 Hz
Ambient temperature, °C (°F)	NA	Type	Full pressure
Engine jacket water capacity L (gal)	2.7 (0.71)	Oil pan capacity, L, (qt.)	7.4 (7.8)
Radiator system capacity, including engine, L (gal.)	NA	Recommended lube oil	SAE15W40 , API CF-4
Engine jacket water flow, L/min (g/min)	34 (9.0)	Oil pan capacity with " lter, L (qt.)	NA
Heat rejected to cooling water at rated kW, dry exhaust, kW (Btu/min.)	14.0 (797)	Oil " lter: quantity, type	
Water pump type	Centrifugal	Oil cooler	None
Fan, kWm (HP)	0.9 (1.2)	Maximum oil temperature, °C(°F)	120 (248)
Max. restriction of cooling air, intake and discharge side of radiator, Pa (in. H ² O)	62.2 (0.25)	Ventilation and Air-Flow Requirements	
dBA LEVELS SOUND ATTENUATED ENCLOSED @ 21 feet	Within (under) 70dBA	Air Requirements	
			60 Hz
		Radiator-cooled cooling air, m ³ /min. (scfm)	NA
		Air density kg/m ³ (ibm/ft ³)	1.20 (0.075)
		Heat rejected to exhaust, kW (btu/min)	24.2 (1377)
		Heat radiated to surrounding air Engine: kW (Btu)	3.8 (216)
		Combustion air, m ³ /min. (cfm)	1.77 (62.8)

Dimensions and Weights

Open Set Model		Sound Attenuated Set Model	
Overall size, L x W x H, mm (ins.)	1,460 x 604 x 1,206 (57.5 x 23.8 x 47.5)	Overall size, L x W x H, mm (ins.)	1,920 x 900 x 1,150 (75.6 x 35.4 x 45.3)
Weight, radiator-mounted model, wet, kg (lb.):	404 (888)	Weight, radiator-mounted model, kg (lb.):	701 (1,542)
Fuel Tank Capacity, L (US gal)	72 (19)	Fuel Tank Capacity, L (US gal)	38 (10.0)
			

NOTE: The drawings above are only representative of the overall dimensions. For full detailed installation drawings please consult your local distributor or contact us.

RATINGS: Power factor three-phase is 0.8 and single-phase unity. Standby Ratings: Standby ratings assume installation normally served by reliable utility power. The standby rating is available for varying loads for the length of the power outage. No overload is available with the standby rating. Ratings are in accordance with ISO-3046/1 and DIN 6271. Prime Power Ratings: Prime power ratings assume no or unreliable utility power. For varying loads the generator set has unlimited operating hours. A 10% overload capacity is available for any 1 hour in a 12 hour continuous running period. Ratings are in accordance with ISO-3046/1 and DIN 6271. Consult us for limited running time and base load ratings. We reserve the right to change the design or specifications without notice and without any obligation or liability whatsoever. DERATION GUIDELINES: Altitude: Derate 1.3% per 100 m (328 ft) elevation above 1000 m (3280 ft). Temperature: Derate 1.0% per 10°C (18°F) temperature above 40°C (104°F).