

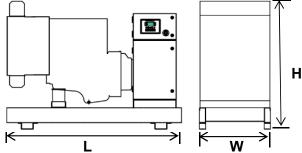
Technical Data

April 2018

Engine	Alternator	Generator I	Nodel
Cummins 6ZTAA13-G3	Stamford HCI444F	FB388-C / Open	FC388-C / Silent
		12000 07 0000	

50Hz/1500rpm	3-Ph	ase	Power Factor Factor Cos Φ = 0.8		-	Emissions N/A
RATINGS	Prime F		Standby		Rated Current	Fuel Consumption @100% Load
	(PR	P)	(Et	SP)	Amps	@100%Load
Voltage (V)	kWe	kVA	kWe	kVA	(A)	L/h
400/230	310	388	340	425	559.3	76.5





Overall Dimensions 8	Weights - Open Set	
Length (L)-mm:	3100	
Width (W)-mm:	1250	
Height (H)-mm:	1800	
Dry Weight-kg:	3300	

 Ratings: All three phase generator sets are rated at 0.8 power factor. All single-phase generator sets are rated at 0.8 or 1.0 power factor.

 Prime Power: Available continuously at variable load in lieu of commercially purchased power for an unlimited number of hours per year accordance with ISO8528-1, and an overload of 10% permitted for one hour in every twelve hours of operation in accordance with ISO 3046-1.

 Standby Power: Emergency Standby Power in variable load applications in accordance with ISO8528-1 in the event of a utility power failure. No overload available for this service as relevant alternators are peak continuous rated at 27 °C.

 TIDE Power reserves the right to change the design or specifications without notice and without any obligation or liability.

 Tide Power Technology Co., Ltd.
 NO.1 Building, YiXu Mechanical & Electrical Park, Gaishan Town, Cangshan District, Fuzhou, Fujian, China.

 Our Tel: +86-591-28068999, Fax: +86-591-28068900
 Email: sales@tpshk.com
 www.tpshk.com

Engine			Cun	nmins 6ZTAA13-G3
		Units	Prime	Standby
Fi	requency	Hz	50	
E	ngine Speed	r/min	1500	

General	Cylinders / Type Aspiration Governor Type Bore / Stroke		6 cyl / In-line / 4 Turbocharged and Cha Electronic Gov 130/163	rged Air Cooled vernor
Performance		mm	130/163	
	Displacement	Litres	13	
	Compression Ratio	1-		
	Piston Speed	m/s	8.15	0000
	Brake Mean Effective Pressure	kPa	2092	2338
	Engine Power	kWm	340	380
	Fuel Consumption at 110% Prime Power	Litres/hour	86.9	
	Fuel Consumption at 100% Prime Power	Litres/hour	76.5	
Fuel System	Fuel Consumption at 75% Prime Power	Litres/hour	56.5	
,	Fuel Consumption at 50% Prime Power	Litres/hour	38.0	
	Fuel Consumption at 25% Prime Power	Litres/hour	20.9	
	Standard Fuel Tank Capacity	Hours / Litres	8 / 610	
	Maximum Intake Air Restriction with Heavy Duty	Air Cleaner		
Air System	- With Clean Filter Element	kPa	3.2	
All Oystern	- With Dirty Filter Element	kPa	6.2	
	Intake Air Flow	m ³ /min	25.5	27.6
	Maximum Back Pressure	kPa	13	
Exhaust	Exhaust Outlet Size	mm	130	
System	Exhaust Gas Flow	kg/min	26.6	28.8
	Exhaust Gas Temperature	°C	594	636
	Total Oil System Capacity	Litres	45.42	
O'll Ourstand	Typical Oil Pressure Range - Warm Engine	kPa	207-276	
Oil System	Maximum Lube Oil Flow to All Accessories	Litres/min	7.57	
	Maximum Oil Temperature	°C	121	
a	Coolant Capacity - Engine Only	Litres	23.1	
Cooling	Standard Thermostat (Modulating) Range	°C	82-94	
System	Maximum Coolant Temperature - Engine Out	°C	102	
	Electrical System Voltage	V	24	
Electric	Battery		Maintenance	-free
System	Connecting Cables	l	Auailable	9
	Heat Rejection to Ambient	kW	55	62
Energy	Heat Rejection to Jacket Coolant	kW	140	152
Balance	Heat Rejection to Exhaust	kW	294	329

Alternator

50Hz/1500rpm

		Units	
	Manufacture / Brand		Stamford
	Model		HCI444F
	Coupling / No. of Bearings		Direct / Single Bearing
	Phase / Poles		3-Phase / 4-Pole
	Power Factor		Cos Φ = 0.8
General Data	AVR Regulation		Yes
General Data	Voltage Regulation		± 0,5 %
	Insulation Class		Н
	Drip Proof		IP23
	Excitation		Shunt
	Altitude	m	≤1000
	Overspeed	min ⁻¹	2250

 Tide Power Technology Co., Ltd.
 NO.1 Building, YiXu Mechanical & Electrical Park, Gaishan Town, Cangshan District, Fuzhou, Fujian, China.

 Our Tel: +86-591-28068999, Fax: +86-591-28068900
 Email: sales@tpshk.com
 www.tpshk.com

Tide Power Easycon Function Summary				
Controller Model / ComAp	EC 2.0 /	EC 3.0 /	EC 4.0 /	EC 5.0 /
	Nano Plus	AMF20	AMF25	IG-NT

Controller Photos				
Standard Supply	×	•	0	0
Viewable Parameters				
Phase Voltage	×	3	3	3
Current	Instrumentation	•	•	•
Frequency	•	•	•	•
Active Power	×	•	•	•
Reactive Power	×	•	•	•
Apparent Power	×	•	•	٠
Power Factor	×	•	•	•
Electric Energy Metering	Х	•	•	•
Generator Protection				
Abnormal Voltage	•	•	•	•
Over-current Warning	×	•	•	•
Over current Protection	•	•	•	•
Over Frequency Protection	•	•	•	•
Short Circuit Protection	MCCB / ●	MCCB / ●	MCCB / ●	MCCB / ●
Engine Figure				
Dil Pressure	•	•	•	•
Nater Temperature	•	•	•	•
Fuel Meter / Fuel Sensor	●/O	•/0	●/O	•/0
				•
Speed	•	•	•	-
Battery Voltage	•	•	•	•
Elapsed Time	•	•	•	•
Engine Protection				
Low Oil Pressure Warning	×	•	•	•
Low Oil Pressure Protection	•	•	•	•
High Temperature Warning	×	•	•	•
High Temperature Protection	•	•	•	•
Overspeed Warning	×	•	•	•
Overspeed Protection	×	•	•	•
Alternator Charger	•	●	•	•
Functions				
Remote Start	•	•	•	•
AMF (Auto Main Failure)	•	•	•	•
Programmable Intput	•	•	•	•
Programmable Output	•	•	•	•
Expand Module	×	0	0	0
Communication Function	×	0	0	●/ RS232 / 485
Communication Port	USB	0	0	RS232 / 485
CAN	•	×	•	•
Service Indicate	×	×	•	•
Fault History	•	•	•	•
Gen-Gen Synchronising	×	×	×	•
Gen-Mains Synchronising	×	×	×	•

Remark: • Standa

Standard Supply

 \bigcirc Available as Optional

× Not Available

 Tide Power Technology Co., Ltd.
 NO.1 Building, YiXu Mechanical & Electrical Park, Gaishan Town, Cangshan District, Fuzhou, Fujian, China.

 Our Tel: +86-591-28068999, Fax: +86-591-28068900
 Email: sales@tpshk.com
 www.tpshk.com

Enclosure / Canopy

(Sound-attenuated & Weather Protective)

"Ensure a quieter life with our sound attenuation system." Features:

Extremely Rugged & Highly Corrosion Resistant Construction

- Body made from 2.0mm sheet steel components with powder coating
- 8-12 hours built-in fuel tank integrated into the skid-mount base
- Excellent design and craftmanship
- Compact structure and longer service life
- Residential silcencer to made sure the sound level.
- Zinc alloy with black powder coated locks and hinges and proven to withstand corrosive conditions.

Easy Commissioning and Maintenance

- Separate & Standing control room at end side, easy reachable electrical power connections, board.
- Side doors allowing 180° opening rotation .
- Radiator fill access through cover in canopy roof.
- Lube oil drain and radiator drain.
- Manual lube oil pump provided.

Security and Safety

- Earth leakage protection.
- 40-50mm non-inflammable sponge inside.
- Control panel viewing window in a lockable access door.
- Emergency stop button mounted on canopy exterior.
- Fuel fill and battery can only be reached via lockable access doors.
- Exhaust silencing system enclosed for operator safety
- Efficient management of cooling air to avoid high water temperature, reliable operation under harshest conditions.

Transportability

- Lifting points on top to move genset easily.
- Fork lift legs provided and easy to loose to fix the genset.

Overall Dimensions & Weight & Noice				
Dimensions	Weight	Noice Level	Base Tank (@100% Load
(L x W x H) mm	kg	dB(A) at 7m	Hours	Litres
4600×1800×2230	4500	85	8	650

 Tide Power Technology Co., Ltd.
 NO.1 Building, YiXu Mechanical & Electrical Park, Gaishan Town, Cangshan District, Fuzhou, Fujian, China.

 Our Tel: +86-591-28068999, Fax: +86-591-28068900
 Email: sales@tpshk.com
 www.tpshk.com

Optionals (All depends)

Custom-Made solutions

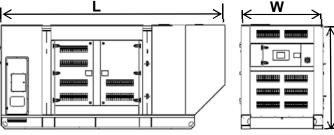
Genset:

Genset:

Materials & Miscellaneous

Materials & Miscellaneous





Н

- Marine class painting and other special painting
- Standard accoustic enclosure genset
- Extended warranty
- Extended factory test
- Additional sensors
- Off road trailer type
- Standard ATS
- Mounted fire extinguisher
- Additional vibration isolation
- Wooden case packaging
- Tide Power tool kit
- Additional operation manual
- Nylon canvas wrapped packaging
- Iron shelf for double stack shipping
- Water jacket heater
- Additional CE features selection.

- On road trailer (EU) type

- Rental type genset
- Mining type genset
- Marine type genset
- High temp. Radiator for silenttype genset
- EPA series gensets

 Tide Power Technology Co., Ltd.
 NO.1 Building, YiXu Mechanical & Electrical Park, Gaishan Town, Cangshan District, Fuzhou, Fujian, China.

 Our Tel: +86-591-28068999, Fax: +86-591-28068900
 Email: sales @tpshk.com
 www.tpshk.com

Optionals (All depends)

Diesel Engine/ Baseframe Mounted Accessories:

Cooling System

- Engine heat guards
- Low coolant level alarm & shutdown (Depends on engine series)
- High temp. & Anti-erosion radiator upgrade for open type genset
- 50% antifreeze @-36°C

Filters

- Extra air filters for time-maintenance
- Double heavy duty air filters
- Extra fuel filters for time-maintenance
- Extra oil filters for time-maintenance

Exhaust

- Residential silencer for open type genset
- Stainless steel silencer and kits
- Heat protection guard

Fuel & Oil

- Separated / External fuel tank
- Water fuel separator
- 3 way fuel valve
- Manual bypass valve
- Lub oil make up tank
- Lub oil drain pump
- Fuel level sensor
- Fuel cooler
- Automatic remote fuel supply with fuel level switch
- & low fuel level alarmshutdown.
- Coolant heater 220/240V
- Lub-oil heater for severe cold weather

Starting & Charging

- Bulk starting battery -17°C below

Filters

- Mounted heavy duty air filter

Custom-Made solutions

Cooling System

Diesel Engine/ Baseframe Mounted Accessories:

- Anti-erosion radiator for silent type genset

- Remote cooling tower with heat exchanger

- Remote radiator with heat exchanger

Exhaust

- Mounted heavy duty air filter

Fuel & Oil

- Bulk base fuel tank
- Bunded base fuel tank

Starting & Charging

- None

- Battery removal switch

- Battery heater

Control System & Power Termination:

Control System & Breakers

- Different functional modules with
- Tide Easycon refer to other table
- Mounted audible and visable llighting
- Control panel cover (80kva or below)
- Motorized circuit breaker 3 Poles
- Motorized circuit breaker 4 Poles
- ACB 3 Poles
- MCCB 4 poles
- Different breaker brands, like ABB etc
- Leakage protection switch

Control System & Power Termination:

Control System & Breakers

- Various standard sockets mounted outside the enclosure

 Tide Power Technology Co., Ltd.
 NO.1 Building, YiXu Mechanical & Electrical Park, Gaishan Town, Cangshan District, Fuzhou, Fujian, China.

 Our Tel: +86-591-28068999, Fax: +86-591-28068900
 Email: sales@tpshk.com
 www.tpshk.com

Optionals (All depends)	Custom-Made solutions

Brushless Alternator:

- 12 Lead stator (change voltage depends)
- Interchangeable S.A.E flanges and drive discs
- Convenient filters on air inlets and outlets
- Coastal type [] Alternator painting color P.M.G or auxiliary
- AREP for Leroy-Somer only
- Shunt trip
- Exterior potentiometer
- Auxiliary contacts and double bearing
- Anti-condensation heater
- Stator thermal protection
- Quadrature droop kits

Enclosure & Canopy:

Weather protective & Sound proof

- R series
- ISO 20ft containerized
- ISO 40ft containerized
- Stainless steel locks and hinges

Brushless Alternator:

- Temperature rise class F Marine type alternator IP upgrade HV

Enclosure & Canopy:

Weather protective & Sound proof

- Super silent enclosure
- Weather proof enclosure
- Flat sponge sound absorber enclosure
- Porous sheet with rockwool sound absorber enclosure

Please refer to Tide Power sales department for full details of the above options.

Warranty

Tide Power distributor, dealer, or authorized representative performs startup within 6 months of the date of shipment from the factory, warranty coverage will begin on the startup date (Register the startup date to Tide with in 6 month is essential and can be enforced). This warranty does not apply to malfunctions caused by damages, unreasonable use, misuse, repair or service by unauthorized persons, or normal wear and tear.

Warranty Coverage

Generators used to commercial utility source: One (1) year or 1000 hours (whichever occurs first) from date of shipment from the factory or registered startup date.