



Jan 12, 2018

Indicative offer/Specification for Klaus Schneider / Gin Fizz 37 Jeanneau

prepared by Christian Hallberg/Marita Jaakkola



OCEANVOLT

Hybrid Electric Power & Propulsion Systems

CLEAN

Zero Emission

SAFE

48V System

POWERFUL

Instant Power

**STATE OF
THE ART**

Patented Technology

Product	Price	QTY	Subtotal
Propulsion system			
Oceanvolt AXC10 10 kW shaft drive motor. Mounting brackets. Cooling system. Motor controller. Display. Control lever. CAN cables	€11.490,00	1	€11.490,00
Gori 3b 15x10 shaft propeller	€1.960,00	1	€1.960,00
Battery system alternatives, lithium ion batteries LIFEPO4			
<input type="checkbox"/> Valence 10.5 kWh 6 x U247-24XP batteries	€8.970,78	0	€0,00
<input checked="" type="checkbox"/> Valence 14 kWh 8 x U27-24XP batteries	€11.747,40	1	€11.747,40
<input type="checkbox"/> Valence 17.5 kWh 10 x U27-24XP batteries	€14.524,03	0	€0,00
Chargers and accessories			
VE Skylla TG 48/25 Charger for the 48 VDC battery bank that will charge the battery bank from shore power.	€918,00	1	€918,00
VE Color Control GX with remote access interface	€545,00	1	€545,00

Options			
<input type="checkbox"/> Fischer Panda AGT-DC 8000-48V generator <small>Includes installation kit.</small>	€13.744,00	0	€0,00
<input type="checkbox"/> Honda EU20 with LPG kit <small>Portable 2 kW back-up generator</small>	€1.890,00	0	€0,00
<input type="checkbox"/> Skylla control <small>Remote control panel for the Skylla.</small>	€120,00	0	€0,00
<input type="checkbox"/> System Certification done by Oceanvolt <small>Price per day. Travelling expenses are invoiced separately.</small>	€570,00	0	€0,00

Subtotal	€26.660,40
VAT (0%)	€0,00
Total	€26.660,40

Installation

After removal of the old engine and cables (if applicable), installation typically takes 35-40 hours.

Terms

Time of delivery: TBC
Terms of delivery: FCA Finland
Shipping service available on request.

Terms of payment: TBC
Standard warranty: 2 years.
Extended warranty can be purchased.

Pricing is valid for 90 days from the date of quotation.

Links

[FAQ](#)
[Technical downloads](#)
[Oceanvolt RSI - Remote Service Interface](#)

[Hydro-generation feature](#)
[Terms & conditions](#)

For further information, please contact:

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RESISTANCE PREDICTION AND ELECTRIC POWER ESTIMATOR FOR SAILING YACHTS

Version 2.1.1

Project Gin Fizz Jeanneau Date Jan 9, 2018

Boat description

Model	Gin Fizz Jeanneau
Lwl	9,40 m (20-60 foot, 6-18 m)
B hull	3,76 m
Displ.	8,00 ton
H fb/sstr.	2,50 m (height of freeboard at bow)
H mast	18,00 m (height from deck to top)

Keel data

Root chord	0,80 m
Tip chord	0,80 m
Span	1,60 m

Rudder data

Root chord	0,40 m
Tip chord	0,20 m
Span	1,20 m

Customer requests

Requested range	nm
Speed for requested range	kn

Battery capacity A	10,5 kWh
Battery capacity B	14 kWh
Battery capacity C	17,5 kWh

Boat validation check:

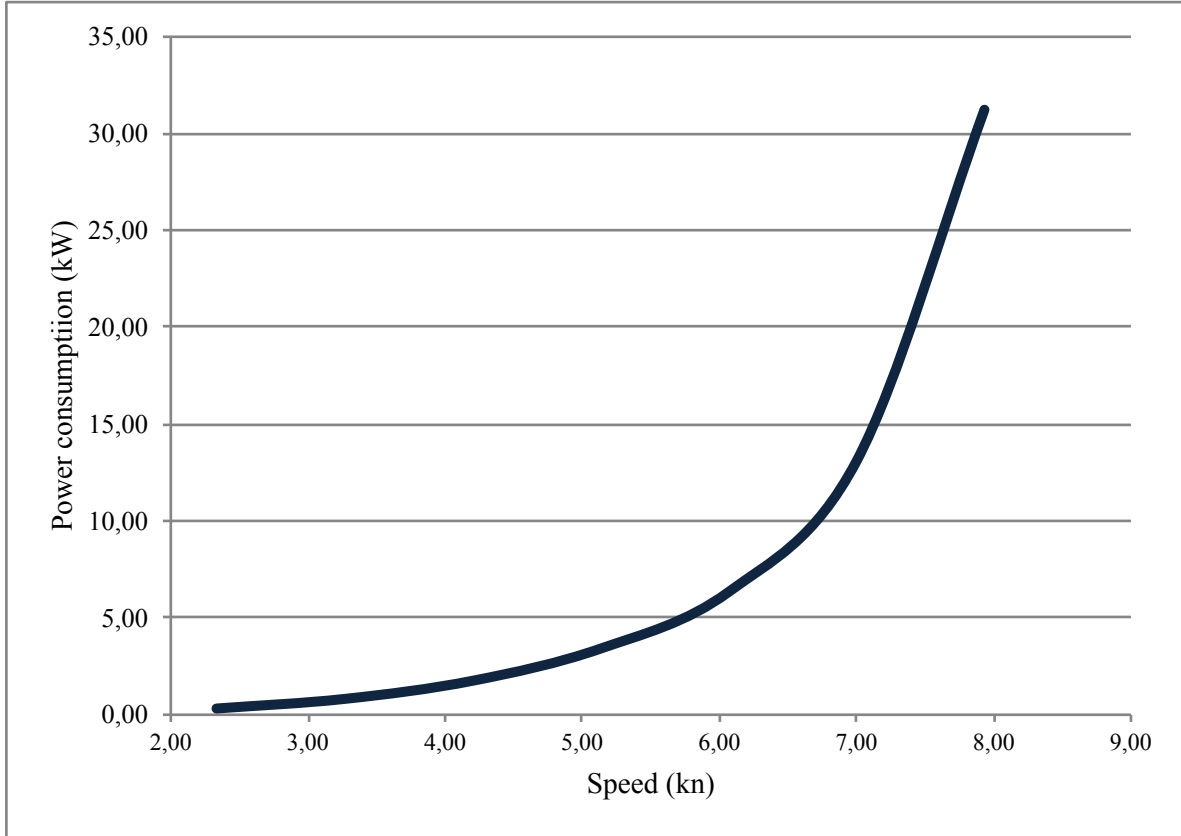
Lwl	9,4	Lwl should be between 6 and 18 m
LDR	4,74	Length-weight-ratio should be between 4.35 and 8.5
LBR	2,50	Lwl/Bhull-ratio

The calculations give an estimate of resistance and power consumption for conventional finkeeled sailing yachts (20-60 feet) with a length-weight ratio of 4.35-8.50 at displacement speeds.

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Gin Fizz Jeanneau



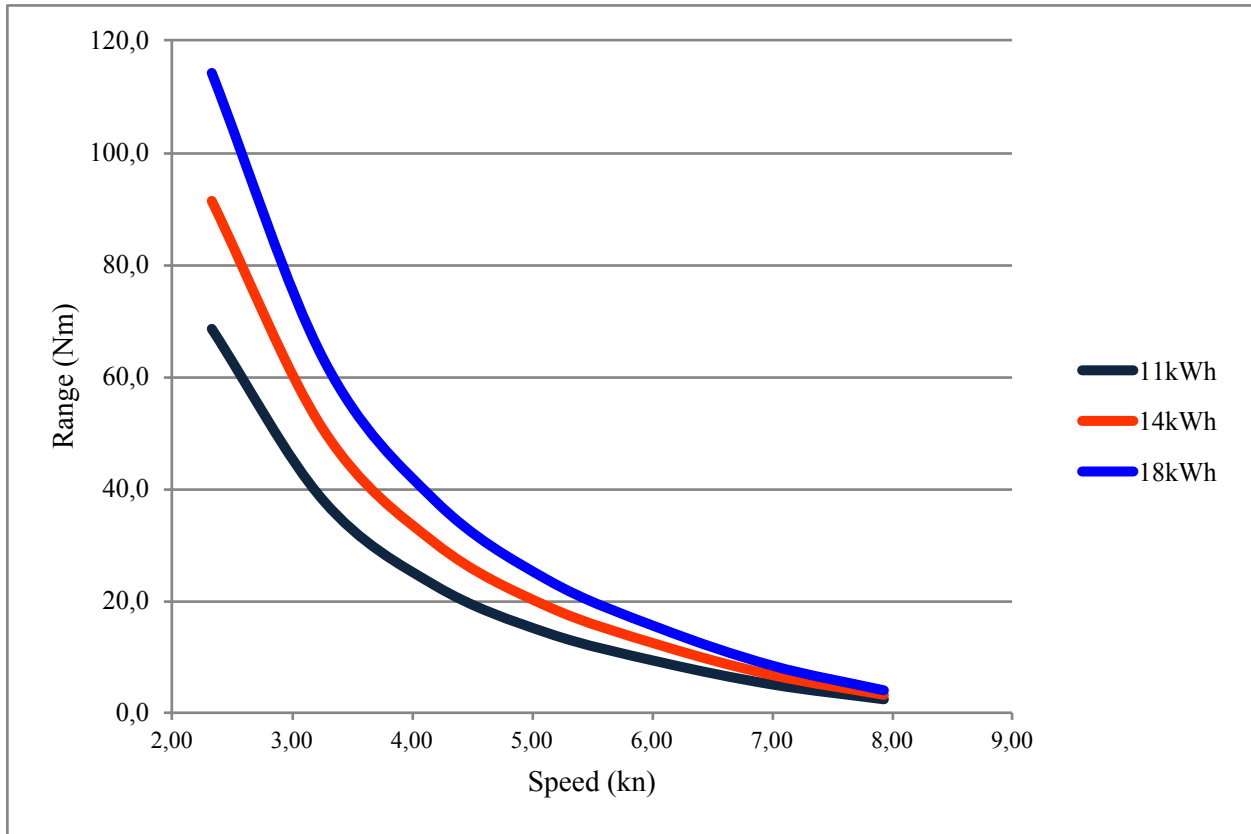
Fn	Speed [kn]	Resistance [N]	Power [kW]		
			P eff	P del	P bat
0,125	2,33	99	0,12	0,27	0,32
0,175	3,27	202	0,34	0,72	0,82
0,225	4,20	362	0,78	1,58	1,75
0,275	5,13	601	1,59	3,07	3,41
0,325	6,07	955	2,98	5,70	6,33
0,375	7,00	1709	6,15	11,78	13,08
0,425	7,93	3599	14,69	28,11	31,23

1. Peff Effective power [kW]
2. Pdel Shaft power, motor [kW]

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Speed [kn]	P bat [kW]	Range Bat A [Nm]		Range Bat B [Nm]		Range Bat C [Nm]	
		Flat water	Seamargin	Flat water	Seamargin	Flat water	Seamargin
2,33	0,32	68,5	51,4	91,3	68,5	114,1	85,6
3,27	0,82	37,8	28,3	50,4	37,8	63,0	47,2
4,20	1,75	22,6	17,0	30,2	22,6	37,7	28,3
5,13	3,41	14,2	10,7	18,9	14,2	23,7	17,8
6,07	6,33	9,0	6,8	12,1	9,0	15,1	11,3
7,00	13,08	5,1	3,8	6,7	5,1	8,4	6,3
7,93	31,23	2,4	1,8	3,2	2,4	4,0	3,0

 Battery A
11kWh

 Battery B
14kWh

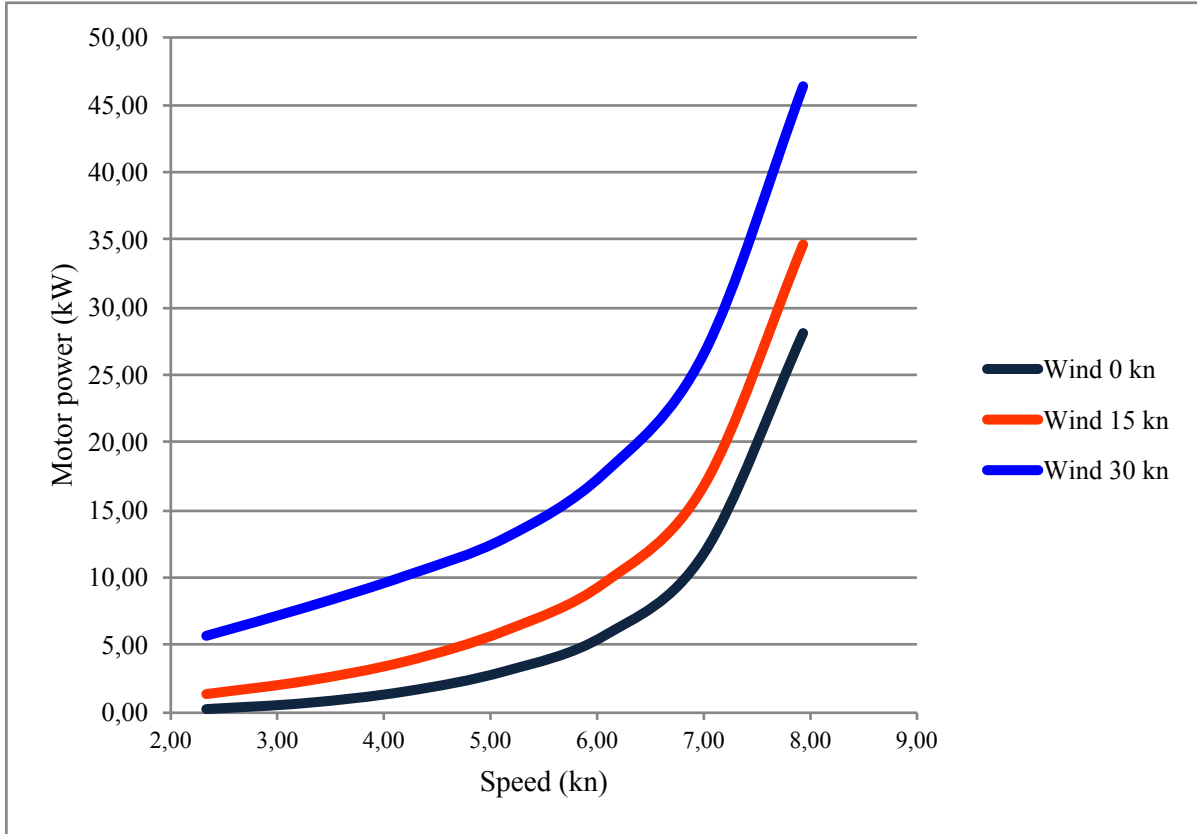
 Battery C
18kWh

 Requested range **15 Nm**
 Speed for requested range **5 kn**

RESISTANCE PREDICTION AND ELECTRIC POWER ESTIMATOR FOR SAILING YACHTS

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Gin Fizz Jeanneau



Speed [kn]	Wind 0kn		Wind 15 kn		Wind 30 kn	
	Resistance flatwater	Pdel [kW]	Resistance flatw+wind	Pdel [kW]	Resistance flatw+wind	Pdel [kW]
2,33	99	0,27	531	1,38	1623	5,70
3,27	202	0,72	676	2,35	1809	7,80
4,20	362	1,58	876	3,80	2050	10,13
5,13	601	3,07	1157	6,07	2372	12,92
6,07	955	5,70	1551	9,61	2807	17,73
7,00	1709	11,78	2346	16,78	3643	26,55
7,93	3599	28,11	4278	34,67	5616	46,39

Resistance flatwater

[N] Stillwater resistance