



M/Y KINDA
S501-C106

DIMENSIONS AND MAIN CHARACTERISTICS OF THE VESSEL

Tankoa Yachts S.p.A.
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Cap. Soc. Euro 8.000.000,00 i.v.
 R.E.A GE 353692
 R.I. 00214830788



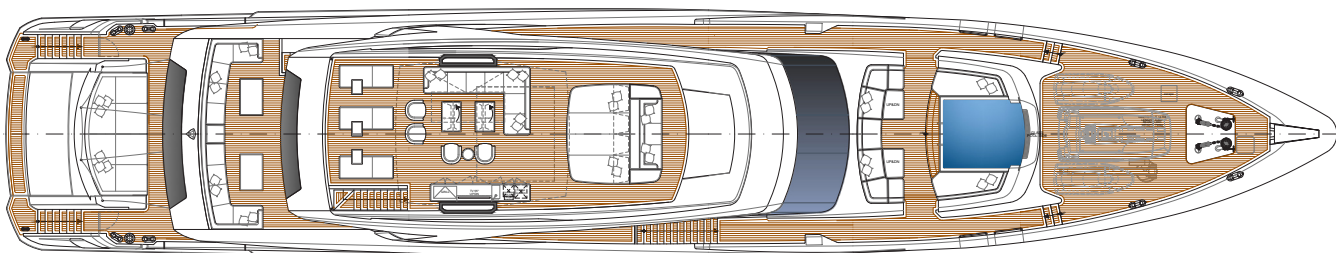
DATASHEET C106 M/Y KINDA

Length overall	49,9	m
Length between the perpendiculars	47	m
Breadth (max)	9,4	m
Depth	4,15	m
Displacement lightship	336	ton
Displacement at half load	391	ton
Displacement at full load	418	ton
Draft at full load	2,4	m
Diesel tanks capacity	56	m3
Fresh water tanks capacity	15,5	m3
Grey and black water capacity	10,14	m3
Clean/dirty lube oil capacity	3,9	m3
Propulsion engines	2xkW 1.029@2.300 rpm	
Hybrid electric motor/generators (SIEMENS BLUE DRIVE ECO PROP.)	2x200	kW
Maximum design speed at half load	18	kn
Max. speed at half load (with MMEE)	17	kn
Long range speed	12	kn
Diesel electric Maximum design speed	10,5	kn
Cruise speed	14	kn
Electric Power diesel gen-set MASE	2x 250 kW max (variable speed)	
Range:		
Long range (shaft alternator mode)	@12 kn. UP TO 4.700 nm	
Optimal Consumption:		
Diesel elect (2EM+2DDGG)	@10,5 kn. 116 l/h	

GENERAL ARRANGEMENT

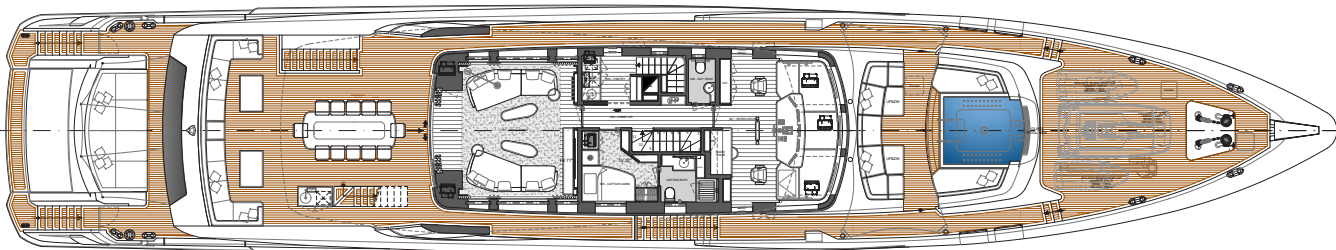


0 5 10 15 20 25 30 35 40 45 50 55 60 65



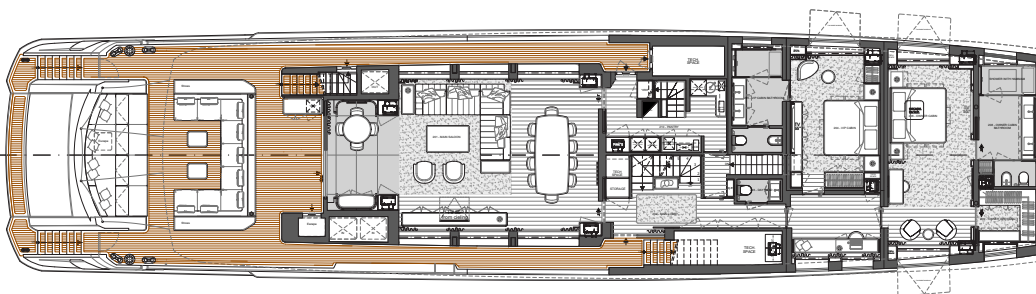
FLY DECK

0 5 10 15 20 25 30 35 40 45 50 55 60 65



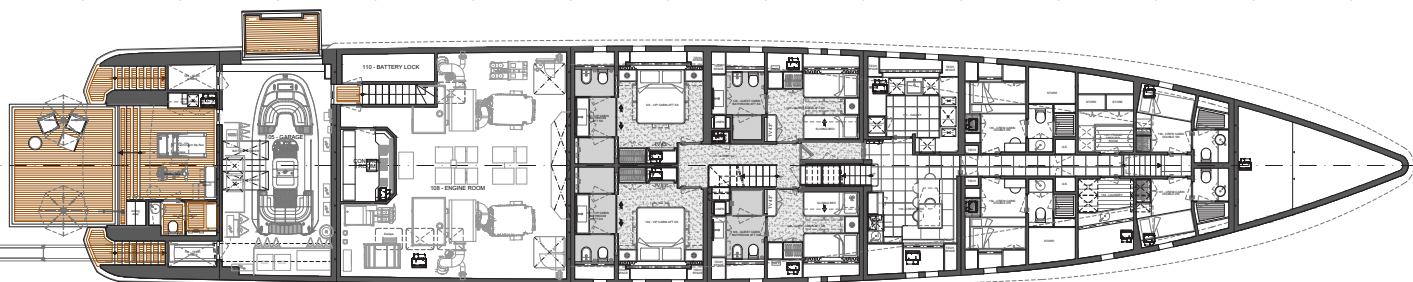
UPPER DECK

0 5 10 15 20 25 30 35 40 45 50 55 60 65



MAIN DECK

0 5 10 15 20 25 30 35 40 45 50 55 60 65



LOWER DECK

0 5 10 15 20 25 30 35 40 45 50 55 60 65

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TANKOA S501 HYBRID C106 FUEL CONSUPTION TABLE

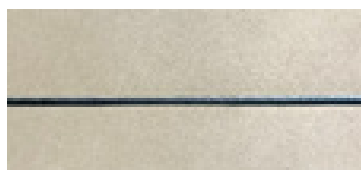
NAVIGATION MODE	DIESEL ELECTRIC		TRADITIONAL						BOOSTER
Hotel Load 50-90 kW	Speed (knots)								
	8,00	10,50	12,00	12,00	14,00	15,00	16,00	16,80	18,00
Propeller required power (kW) shaft 1	60	168	240	240	380	420	570	820	1000
Propeller required power (kW) shaft 2	60	168	240	240	380	420	570	820	1000
Total propeller needed	120	336	480	480	760	840	1140	1640	2000
Engine supplied power (shaft-line losses)	126	354	505	505	800	884	1200	1726	2105
Engine RPM	900	1289	1480	1480	1826	1992	2043	2200	2273
MCR (kW per engine)	N/A	N/A	705	705	760	900	1000	1029	1029
Number engines ON	0	0	2	2	2	2	2	2	2
TOTAL Engines Output in kW			505	595	800	884	1200	1726	1795
Hotel + MSB Supply	90	65	90	90	90	90	90	90	90
Total power needed	216	420	595	595	890	974	1290	1816	2195
E-Motors active (Alternator)	2	2	0		(2)	(2)	(2)	0	2
Generator max power available	250	500	2X250		2X250	2X250	2X250	2X250	500
Generator Power Supplied	199	420	90 (0)		90 (0)	90 (0)	90 (0)	90	400
Generator Load in %	80%	84%	(1) 37%		(1) 37%	(1) 37%	(1) 37%	(1) 37%	80%
Extra Power Available	51	96	410		410	410	410	410	210
rpm@ E-motor Power									
Boat Speed	8,00	10,50	12,00	12,00	14,00	15,00	16,00	17,00	18,00
Fuel consumption Ge (l/h)	60	116	18	0	18	18	18	18	60
Fuel Consumption MMEE (l/h)	0	0	133	142	180	260	450	520	520
TOTAL Fuel Consumption	60	116	151	142	198	278	468	538	580
Fuel Tanks Usable Cap. (57.330-5%)	54.450	54.450	54.450	54.450	54.450	54.450	54.450	54.450	54.450
Range in Hrs	908	469	361	383	275	196	116	101	94
Range in NM	7.260	4.929	4.327		3.850	2.938	1.862	1.721	1.690
Range with shaft alternator				4.601	4.259	3.153	1.940	1.784	
Machinery Running	1DG+2EM	2DG+2EM	2ME+1DG		2ME+1DG	2ME+1DG	2ME+1DG	2ME+1DG	2ME+2DG
Machinery running in shaft-driven alternator	N/A	N/A		2ME+2EM	2ME+2EM	2ME+2EM	2ME+2EM	N/A	N/A
(ME Main engine) (EM electric motor)									

PREDICTED OPERATION ON BATTERY MODE				
NAVIGATION MODE	FULL ELECTRIC			
Battery pack 264 kW (nominal)	SPEED		HARBOUR	
	5,00	8,00	(NIGHT)	(DAY)
Total propellers needed (kW)	60,00	126,00		
Average hotel load Kw/h	40,00	40,00	30,00	50,00
Total power needed	100,00	166,00		
Battery power supplied (20% reserve)	211,20	211,20	211,20	211,20
Total hours zero emissions	2,11	1,27	7,04	4,224

INTERIOR MATERIAL BOARD



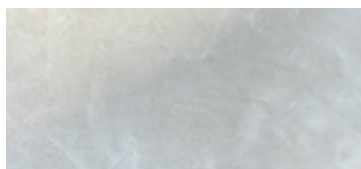
Wood oak
STEPS/FLOOR



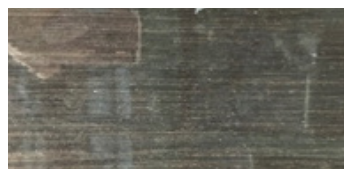
Hard Leather
WALLS/FORNITURE



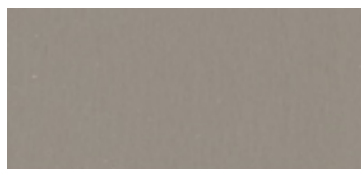
Wood Brushed Oak
WALLS



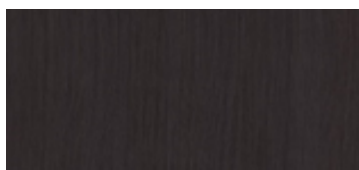
Leather
WALLS



Wood Striped grey
FORNITURE



Formica



Wood Striped black
DRAWERS



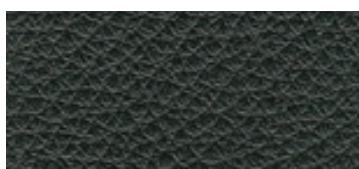
Lacquered
CEILINGS



Wood fumée noir
WALLS



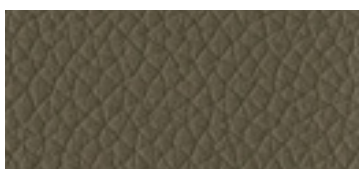
Lacquered wood
DRAWERS



Leather
HEADBOARD



Artistic lacquered
wood
WALLS



Leather
HEADBOARD

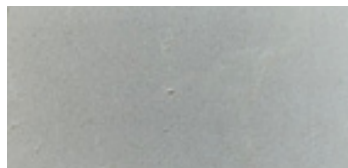


Lacquered
BOW WALL

INTERIOR MATERIAL BOARD



Lacquered
BED WALL



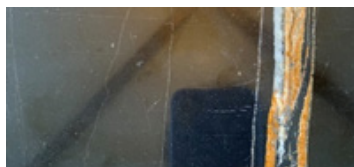
Botticino Marble
FLOOR



Lacquered
WALL



Glass Q'in
WALLS



Marble Sahara noir
BEDSIDE TABLE



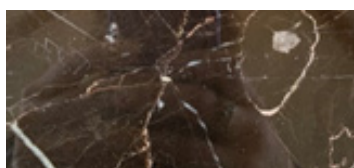
Glass Q'in
WALLS



Marble Noir Saint
Laurent
TOP



Marble Velvet
Brown
TOP



Marble
TOP

INTERIOR LOOSE FORNITURE Gallotti & Radice, Minotti, Vitra, Flexform

EXTERIOR LOOSE FORNITURE Talenti, Kettal, Varaschin, Tuuci