

Rating Office

Offshore
Racing
Congress



Certificate

Number **US6427**
Issued On **02/09/2020**
ORC Ref **03410000PKB**
VPP Ver. **2020 1.02**
Valid until **31/12/2020**

Crew Weight

Default 858kg
Maximum **825kg**
Minimum* **619kg**
**when applied by the NoR and SI*
Non Manual Pwr **No**

Special Scoring

	ToD	ToT
Non Spin GPH	527.4	1.1377
Non Spin OSN	515.1	1.1647

Sails Limitations

Headsails **7** Spinnakers **5**

Asymmetric on centerline

Spinnaker configuration
Symmetric: **No**
Asymmetric: **Yes 180.09**
Flying H/S: **No**
Spin. Pole: **No**

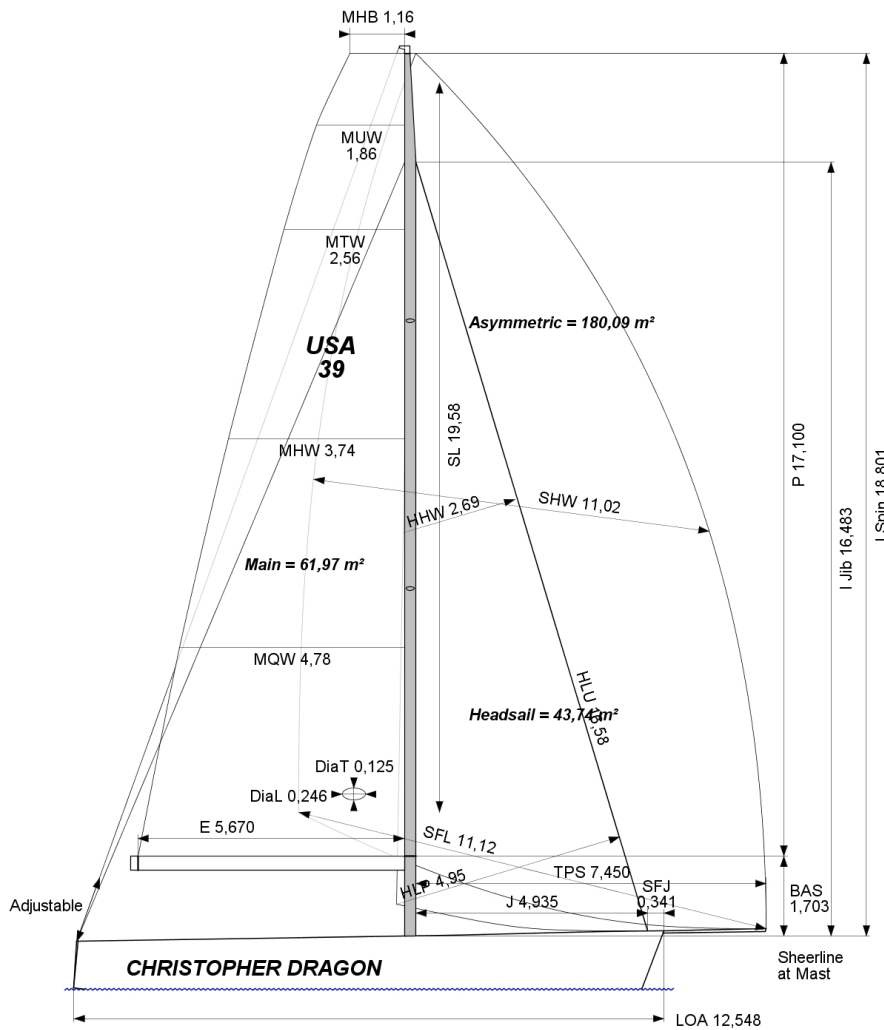
Class Division Length

CDL = 12.683

Stability (Estimated)

Limit Positive Stab.: **135.3°**
Stability Index: **131.6**

Owner



BOAT	GPH	HULL
Name CHRISTOPHER DRAGON Sail Nr USA 39	483.3	Data File US6427 LOA 12.548m Offset File 200807_134_Ker MB 4.189m Displacement 4,257kg Draft 2.991m
CLASS Class KER 40+ Designer Jason Ker Builder McCanghy Series 01/2015 Age Date 01/2016 Age Allowance 0.163%		IMS Division Performance Dynamic All. 0.000% Plan Review Construction Carbon Fiber Rigging No Aramid Core No Crew Arm Ex Carbon Rudder Yes Light Stanchions No
COMMENTS		IMSL 12.142m VCGD -0.812m Sink 21.90kg/mm RL 13.265m VCGM -0.818m WS 28.10m² LSM0 11.675m Displacement/Length ratio 2.6751
PROPELLER Installation Strut PRD 0.446 Type Folding 2 blades PBW 0.120 PIPA 0.0037		Water Ballast 0 Trim Tab No BLR Index 0.0000
		CENTERBOARD N/A
SCORING OPTIONS		
	COASTAL / LONG DISTANCE	WINDWARD / LEEWARD
Time on Distance	471.2	535.6
Time on Time	1.2734	1.2603
Triple Number	Low Medium High	Low Medium High
Time on Distance	550.4 432.1 370.1	714.8 543.4 461.7
Time on Time	1.2263 1.5621 1.8240	0.9443 1.2422 1.4620

2020

ORC Club Certificate Appendix

BOAT			
Name	CHRISTOPHER DRAGON	Certificate Number	US6427
Sail Nr	USA 39	Issued On	02/09/2020

TIME ALLOWANCES							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat VMG	802.3	655.5	601.5	579.8	569.0	555.2	548.7
52°	524.0	448.4	424.7	412.7	404.9	397.9	383.5
60°	493.6	435.5	408.6	393.2	383.9	377.9	360.3
75°	469.4	425.5	390.8	365.5	352.3	343.7	328.6
90°	457.0	409.7	378.9	356.6	331.0	315.5	298.9
110°	466.9	414.2	368.9	333.0	311.6	294.0	268.1
120°	488.9	427.0	382.3	339.5	304.2	279.9	248.4
135°	566.3	454.8	409.3	365.0	322.4	286.9	237.3
150°	679.5	534.0	458.6	413.2	375.9	334.4	262.9
Run VMG	784.7	616.7	529.5	479.3	434.1	386.2	303.6
Selected Courses							
Windward / Leeward	793.5	636.1	565.5	529.5	501.6	470.7	426.1
Circular Random	663.5	538.0	470.1	428.7	400.3	378.7	346.1
Coastal / Long Distance	792.6	599.2	509.5	453.4	414.7	378.7	323.5
Non Spinnaker	738.1	592.0	511.8	462.9	430.0	406.1	371.5

Velocity Prediction in Knots for True Wind Speeds							
Wind Velocity	6 kt	8 kt	10 kt	12 kt	14 kt	16 kt	20 kt
Beat Angles	42.8°	40.9°	38.3°	36.8°	36.4°	35.3°	35.4°
Beat VMG	4.49	5.49	5.99	6.21	6.33	6.48	6.56
52°	6.87	8.03	8.48	8.72	8.89	9.05	9.39
60°	7.29	8.27	8.81	9.16	9.38	9.53	9.99
75°	7.67	8.46	9.21	9.85	10.22	10.47	10.96
90°	7.88	8.79	9.50	10.09	10.88	11.41	12.04
110°	7.71	8.69	9.76	10.81	11.55	12.25	13.43
120°	7.36	8.43	9.42	10.60	11.83	12.86	14.49
135°	6.36	7.92	8.80	9.86	11.17	12.55	15.17
150°	5.30	6.74	7.85	8.71	9.58	10.76	13.69
Run VMG	4.59	5.84	6.80	7.51	8.29	9.32	11.86
Gybe Angles	141.5°	143.5°	149.5°	151.8°	147.5°	145.5°	143.3°