



DHV TESTREPORT EN 926-2:2013+A1:2021

GIN CALYPSO 2 XS

Type designation	GIN Calypso 2 XS
Type test reference no	DHV GS-01-2904-24
Holder of certification	GIN Gliders Inc.
Manufacturer	GIN Gliders Inc.
Classification	B
Winch towing	Yes
Number of seats min / max	1 / 1
Accelerator	Yes
Trimmers	No



BEHAVIOUR AT MIN WEIGHT IN FLIGHT (65KG)		BEHAVIOUR AT MAX WEIGHT IN FLIGHT (85KG)	
Test pilots			
			
Beni Stocker		Harald Buntz	
No release		No release	
Inflation/take-off	A	A	
Rising behaviour		Smooth, easy and constant rising	
Special take off technique required		No	
Landing	A	A	
Special landing technique required		No	
Speeds in straight flight	A	A	
Trim speed more than 30 km/h		Yes	
Speed range using the controls larger than 10 km/h		Yes	
Minimum speed		Less than 25 km/h	
Control movement	A	A	
Symmetric control pressure		Increasing	
Symmetric control travel		Greater than 55 cm	
Pitch stability exiting accelerated flight	A	A	
Dive forward angle on exit		Dive forward less than 30°	
Collapse occurs		No	
Pitch stability operating controls during accelerated flight	A	A	
Collapse occurs		No	
Roll stability and damping	A	A	
Oscillations		Reducing	
Stability in gentle spirals	A	A	
Tendency to return to straight flight		Spontaneous exit	
Behaviour exiting a fully developed spiral dive	A	A	
Initial response of glider (first 180°)		Immediate reduction of rate of turn	
Tendency to return to straight flight		Spontaneous exit (g force decreasing, rate of turn decreasing)	
Turn angle to recover normal flight		Less than 720°, spontaneous recovery	
Symmetric front collapse	A	A	
Entry		Rocking back less than 45°	
Recovery		Spontaneous in less than 3 s	
Dive forward angle on exit		Dive forward 0° to 30°	
Change of course		Keeping course	
Cascade occurs		No	
Folding lines used		no	
Unaccelerated collapse (at least 50 % chord)	A	A	
Entry		Rocking back less than 45°	
Recovery		Spontaneous in less than 3 s	
Dive forward angle on exit		Dive forward 0° to 30°	
Change of course		Entering a turn of less than 90°	
Cascade occurs		No	
Folding lines used		no	
Accelerated collapse (at least 50 % chord)	A	A	
Entry		Rocking back less than 45°	
Recovery		Spontaneous in less than 3 s	
Dive forward angle on exit		Dive forward 0° to 30°	
Change of course		Entering a turn of less than 90°	
Cascade occurs		No	
Folding lines used		no	
Exiting deep stall (parachutal stall)	A	A	
Deep stall achieved		Yes	
Recovery		Spontaneous in less than 3 s	
Dive forward angle on exit		Dive forward 0° to 30°	
Change of course		Changing course less than 45°	
Cascade occurs		No	
High angle of attack recovery	A	A	
Recovery		Spontaneous in less than 3 s	
Cascade occurs		No	
Recovery from a developed full stall	A	A	
Dive forward angle on exit		Dive forward 0° to 30°	
Collapse		No collapse	
Cascade occurs (other than collapses)		No	
Rocking back		Less than 45°	
Line tension		Most lines tight	
Small asymmetric collapse	A	A	
Change of course until re-inflation		Less than 90°	
Maximum dive forward or roll angle		Dive or roll angle 15° to 45°	
Re-inflation behaviour		Spontaneous re-inflation	
Total change of course		Less than 360°	
Collapse on the opposite side occurs		No (or only a small number of collapsed cells with a spontaneous re inflation)	
Twist occurs		No	
Cascade occurs		No	
Folding lines used		no	
Large asymmetric collapse	A	A	
Change of course until re-inflation		Less than 90°	
Maximum dive forward or roll angle		Dive or roll angle 15° to 45°	
Re-inflation behaviour		Spontaneous re-inflation	
Total change of course		Less than 360°	
Collapse on the opposite side occurs		No (or only a small number of collapsed cells with a spontaneous re inflation)	
Twist occurs		No	
Cascade occurs		No	
Folding lines used		no	
Small asymmetric collapse accelerated	A	A	
Change of course until re-inflation		Less than 90°	
Maximum dive forward or roll angle		Dive or roll angle 15° to 45°	
Re-inflation behaviour		Spontaneous re-inflation	
Total change of course		Less than 360°	
Collapse on the opposite side occurs		No (or only a small number of collapsed cells with a spontaneous re inflation)	
Twist occurs		No	
Cascade occurs		No	
Folding lines used		no	
Large asymmetric collapse accelerated	A	B	
Change of course until re-inflation		Less than 90°	
Maximum dive forward or roll angle		Dive or roll angle 15° to 45°	
Re-inflation behaviour		Spontaneous re-inflation	
Total change of course		Less than 360°	
Collapse on the opposite side occurs		No (or only a small number of collapsed cells with a spontaneous re inflation)	
Twist occurs		No	
Cascade occurs		No	
Folding lines used		no	
Directional control with a maintained asymmetric collapse	A	A	
Able to keep course		Yes	
180° turn away from the collapsed side possible in 10 s		Yes	
Amount of control range between turn and stall or spin travel		More than 50 % of the symmetric control	
Trim speed spin tendency	A	A	
Spin occurs		No	
Low speed spin tendency	A	A	
Spin occurs		No	
Recovery from a developed spin	A	A	
Spin rotation angle after release		Stops spinning in less than 90°	
Cascade occurs		No	
B-line stall	A	A	
Change of course before release		Changing course less than 45°	
Behaviour before release		Remains stable with straight span	
Recovery		Spontaneous in less than 3 s	
Dive forward angle on exit		Dive forward 0° to 30°	
Cascade occurs		No	
Big ears	A	A	
Entry procedure		Dedicated controls	
Behaviour during big ears		Stable flight	
Recovery		Spontaneous in less than 3 s	
Dive forward angle on exit		Dive forward 0° to 30°	
Behaviour immediately after releasing the accelerator while maintaining big ears		Stable flight	
Alternative means of directional control	A	A	
180° turn achievable in 20 s		Yes	
Stall or spin occurs		No	