

sampling rate: 8 frequency (1.14286 samples per hour)
signal period: 7 hours, frequency: 0.14286 cycles per hour
number of samples: 65, 8 periods
df: 0.01758, Δf : 1.12527 cycles per hour
dt: 0.87500, Δt : 56.00000 hours
 $df = 1/\Delta t$, $\Delta f = (n - 1)df = 1/dt$
offset: 0 m, amplitude: 2 m, initial phase: 0.0 °, noise: 0.0

