

# Dyson Labs | Bitcoin Mining Mission Cost Study

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## Orbit: Exolaunch/Delphini-1 (Transporter SSO, 575 km, 97.6°)

### Mission Parameters:

- First Name: Calvin
- Last Name: Rnglad
- Email: cengland2020@gmail.com
- Phone: 3
- Signed up for updates?: Yes
- Interested Services:
- Budget: 23
- How did you hear about us?:
- Message: eee
- Timestamp: 7/2/2025 13:16:03
- Launch Cost Regime: early
- Satellite Class: MW-class
- Satellite Mass (kg): 10000
- Satellite Power (W): 1000000
- Solar Array Area (m²): 3640
- GEO/ISR Relay Used: Yes

### Key Results:

- BTC mined (total): 50.0333
- Power draw (W): 999999
- Net profit: \$-27,740,380

### Cost Summary:

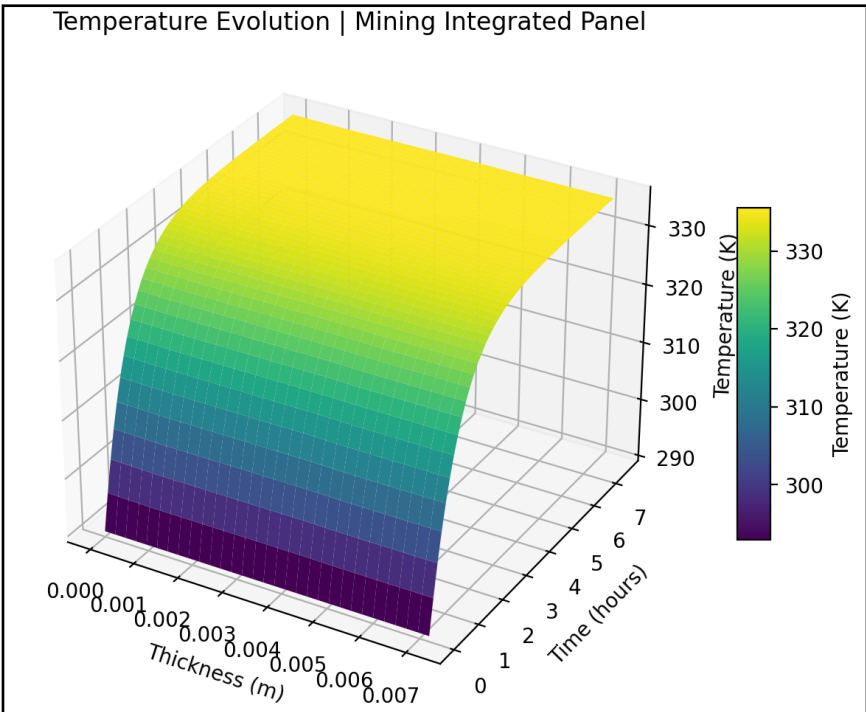
- Bus: \$10,000,000
- Payload: \$1,700,000
- Launch: \$5,000,000
- Integration: \$5,000,000
- Communication: \$8,000,000
- Overhead: \$8,000,000
- Contingency: 15%
- Total Mission Cost: \$34,155,000

### Thermal Summary:

- Max board temp (°C): 62
- Min board temp (°C): 17
- Avg board temp (°C): 56

### RF Link Summary:

- Total passes analyzed: 1774
- Total downlink data (GB): 0.79
- Total uplink data (GB): 1.59
- Total downlink contact time (hr): 176.34
- Total uplink contact time (hr): 352.69
- Downlink % of mission: 24.49%
- Uplink % of mission: 48.98%
- Note: GEO/ISR relay enabled: comms/mining at 100% regardless of regime/orbit.
- Effective Comms Fraction (%): 100.0%
- Regime-Adjusted Mining Fraction (%): 100.0%
- Launch Regime: Early
- GEO/ISR Relay Enabled: Yes



### Comparison of Orbits within Database

