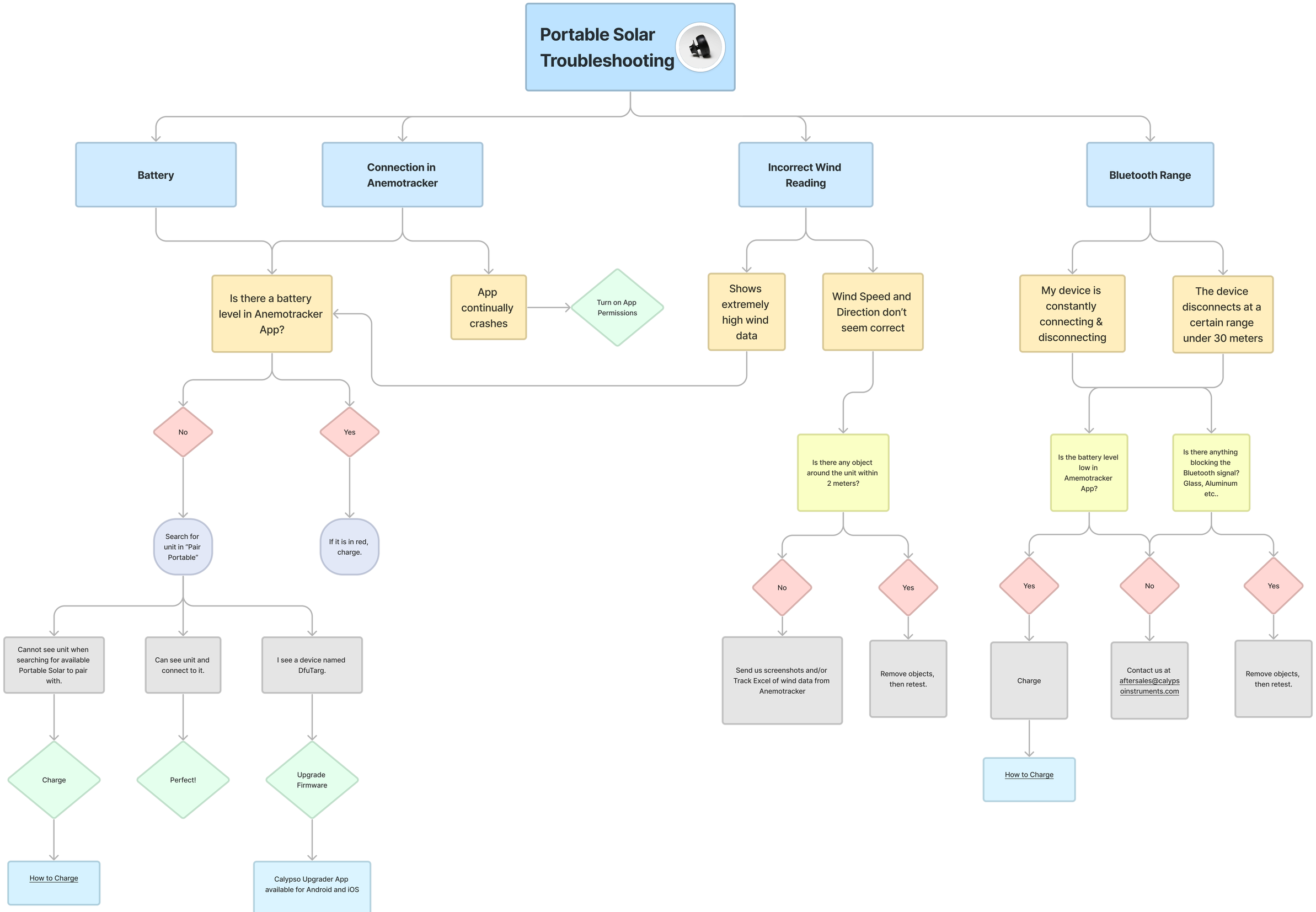Portable Solar Troubleshooting