Compliance sheet — star-sidereal

Everything a supplier qualification, a legal review or an export check usually asks about star-sidereal 0.1.2, in one document.

1. Identity

Document	STAR-PKG-STAR-SIDEREAL-EN · v2.3 · 2026-11-14
Package	star-sidereal
Version	0.1.2
Capability	star.time.sidereal
Maturity	Released & Verified (RELEASED)
Python	>=3.9
Source commit	dc09f61d
Source	https://github.com/Andrea07072000/S.T.A.R.-/tree/main/packages/star_sidereal

2. Licence and obligations

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3. What it needs at run time

Nothing beyond the Python standard library: it works offline.

4. Integrity

SHA-256 fingerprints of the files published on this website. Check a downloaded file with:

```
python -c "import
hashlib,sys;print(hashlib.sha256(open(sys.argv[1],'rb').read()).hexdigest())" star_sidereal-
0.1.2-py3-none-any.whl
```

FILE	SHA-256
star_sidereal-0.1.2-py3-none-any.whl	4a45605938be11da62c93d383701913226 7a2f9b10b1ff38136a1c27800b99a8
star_sidereal.py	adb187e78d0b9f2a7a7150f3cb38561159 6c71d7ce9325e7ff526dd8c94a9d3e
star_sidereal-0.1.2-source.zip	5387fafddcfb1451863465f854806b2207 c87bf4a5ef40be5cad19ad502859e0

5. What it does, and its limits

GMST and local mean sidereal time, IAU 1982 (Vallado eq. 3-47); verified against Vallado and ERFA.

IAU 2000/2006 (Earth rotation angle based) sidereal time, apparent sidereal time (equation of the equinoxes), UTC->UT1.

- `gmst82_deg(jd_ut1_day, jd_ut1_frac=0.0)` -> degrees in [0, 360), Vallado eq. 3-47 (Aoki et al. 1982).
- `lst_deg(jd_day, jd_frac, east_longitude_deg)` -> degrees in [0, 360).
- Non-finite input raises `ValueError`. Input is UT1 (not UTC): the caller applies DUT1.

6. Export, use and certification

The package is published and freely available. That usually takes software out of export-control lists, but not every use of it: read the page on space activities and export control before using it in a controlled programme. It is not certified or qualified for flight; the evidence describes what was tested and how.

7. Citation and bill of materials

```
@software{cavazzini_star_sidereal_0_1_2,
  author  = {Cavazzini, Andrea},
  title   = {{star-sidereal}: Greenwich mean sidereal time (IAU 1982)},
  version = {0.1.2},
  year    = {2026},
  url     = {https://andrea07072000.github.io/S.T.A.R.-/software/star_sidereal/},
  note    = {Apache-2.0. Source: https://github.com/Andrea07072000/S.T.A.R.-, commit dc09f61d}
}
```

CITATION.cff · BibTeX · SBOM CycloneDX 1.5 · SBOM SPDX 2.3

8. Warranty and liability

Provided "as is", without warranties or conditions of any kind (Apache License 2.0, sections 7 and 8), to the extent the law allows. This never excludes liability that the law does not allow to exclude.

Related: space activities and export control · acceptable use · evidence and limits · licence texts