

CosmoFrost Score

Standardized and quantifiable metrics compare the overall performance of satellite cooling systems.

$$w_1 \times EE + w_2 \times SFR + w_3 \times CE + w_4 \times OR + w_5 \times CE$$

EE - Energy Efficiency

SFR - Spatial Footprint Reduction

CE - Cooling Effectiveness

OR - Operational Reliability

CE - Cost-Effectiveness

w_{1-5} are weights assigned to each component