

## Power Budget

| Sunshine State             | Category                 | Voltage [V] | Consumption current [mA] | Power consumption [mW] | Condition of operation time per round                                      | Operation time per round[sec] | Power consumption [mW/round] |
|----------------------------|--------------------------|-------------|--------------------------|------------------------|--|-------------------------------|------------------------------|
| eclipse                    | Standby(EPS)             | 3.7         | 8                        | 245                    | Turn on electricity all time   | 5817                          | 47.8                         |
|                            | Standby(C&DH)            | 5           | 100                      | 125                    | Turn on electricity all time   | 5817                          | 807.9                        |
|                            | Standby (Communication)  | 5           | 15                       | 550                    | Turn on electricity all time   | 5817                          | 121.2                        |
|                            | FM1200bps Reception      | 5           | 25                       | 551                    | Turn on electricity all time   | 5817                          | 202.0                        |
|                            | CW operation             | 5           | 100                      | 958                    | turn on electricity ( Transmission time is 5 sec. and interval is 10 sec.) | 1939                          | 269.3                        |
|                            | FM1200bpsTransmission    | 5           | 700                      | 536                    | Turn on electricity once in 5 rounds (5 min.)                              | 60                            | 58.3                         |
|                            | camera (standby)         | 5           | 90                       | 626                    | Turn on electricity for photographing operating once in a round (2 min.)   | 120                           | 15.0                         |
|                            | camera (shoot)           | 5           | 380                      | 517                    | Turn on electricity for photographing (30 sec.)                            | 30                            | 15.8                         |
|                            | High speed Communication | 5           | 700                      | 194                    | Turn on electricity once in 5 rounds (8 min.)                              | 96                            | 93.3                         |
| Total of power consumption |                          |             |                          |                        |  |                               | 1631[mW/round]               |