R1-0.2MW<sub>e</sub>

Product Data Sheet

**ELECTRICAL DATA**
- Rated power DC\(^1\): 240 kW<sub>DC</sub>
- Nominal Power AC\(^2\): 215 kW<sub>AC</sub>
- Receiver efficiency\(^3\): 34%
- Cell type: Triple Junction
- Nominal Cell Operating Temp.: 65°C

**THERMAL DATA**
- Rated power: 440 kW<sub>th</sub>
- Supply temp.: 50°C
- Required return temp.: < 40°C
- Flow rate (if return temp. @ 20°C): 300 lpm

*Electricity-only option available*

**TOWER AND FIELD**
- Tower height: 25 m
- Heliostat mirror area: 14.5 m\(^2\)
- No. of heliostats: 68
- Total mirror field area: 986 m\(^2\)

**LAND AREA**
- Acres/MW<sub>DC</sub>: 6.6
- System Footprint (non-optimised): 80m E-W x 80m N-S

**COOLING**
- Type: Closed Loop
- Water Usage: None

**OPERATING CONDITION**
- Ambient temp.: -20 to +50°C
- Operational wind speed: 13 m/s
- Survival wind speed: 45 m/s
- Hail survival: 25mm dia. at 23 m/s

**ANNUAL ENERGY PRODUCTION\(^4\)**

**DAILY ELECTRICITY PROFILE (COMPARISON TO PV)\(^5\)**

**REFERENCES**
1. Standard Test Conditions: 1,000 W/m\(^2\) direct irradiance, 25°C cell temp. and AM1.5D (standard solar atmospheric condition)
2. Peak AC at inverter output, Nominal Operating Conditions: 1,000 W/m\(^2\) direct irradiance, 65°C cell temp., AM1.5D; includes losses due to cooling parasitics, inverter and cabling
3. At Standard Test Conditions
4. Based on modelling using site solar resource data. Assumes constant loss of 3% due to mirror soiling and 100% sunshine hours availability
5. NREL System Advisor Model. Typical Meteorological Year with site daily Average DNI = 5.9kWh/m\(^2\)

Updated October 2017 (REV_C2). This data sheet provides general information only and may be subject to change without notice.