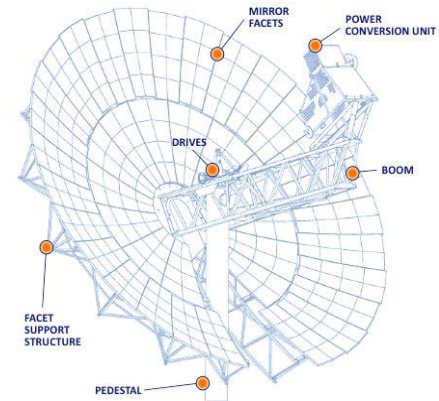




- PCU – Power conversion unit
- Mirror facets – Reflective components;
- Boom - Steel structure to support PCU;
- Truss system – Mirror facet support structure;
- Drives – Sun tracking devices;
- Pedestal – Central system pole.



Majority of above sub-systems or components are automotive parts like components and are designed and developed to be made using auto parts mfg process. CSDS system is design and manufactured with specifications:

Table 1. CSDS system specifications

Dish General Data	
Dish focal length	6.7 m
Dish diameter	11.73 m
Projective area	89.6 m ²
Reflective area	91 m ²
Geotechnical	USGS Seismic Zone 4
Installation method	Foundation/drive down
Mirror Facet Specifications	
Facet number	40 facets 2 rings
Mirror material	low iron glass
Mirror size	Max 2510x1450x25 mm
Reflectivity	92%~94%
PCU (engine) Specifications	
Nameplate Power	25kWe
Generator	3 Phase 480 or 600v AC
Cooling method	Auto coolant
System Efficiency	31.29%
Operation Conditions	
DNI range	DNI 200~1100 kW/m ²
Max op wind limit	65km/h
Max survival limit	180km/h
Sandstorm	Per MIL-STD-810B
Hail Size	<1.9cm Max Dia
Operating temp	-30° C ~ 55° C
Land size	91m ²

**Balance of plant -
“BoP” cost**

At installation, CSDS units require standard “BoP”. The estimated cost for a commercial project will achieve a \$0.30/W cost profile of Balance of Plant and total cost profile of \$1.80/W fully installed. With solar field size increase, we estimate the BoP cost will be reduced to \$0.2, a total install cost to \$1.50/W.

(* Land cost and associated improvement cost are excluded)

