

## **Technical Specifications**

TYPE	COMBINED HEAT & POWER
MODEL	QUADSUN CPV CHP 40-400
COMPONENTS	V
Receiver	Y
Concentrator	Y
Chassis     Mirrors	Y
• Tracker	Y
Cooling system	Y
System controller	Ÿ
Field controller	Y
SYSTEM OUTPUTS	
Electrical output (DC)	1.2 KW DC @1000W/m <sup>2</sup> and 20°C ambient
Voltage	600 V DC
Current	2 A
Thermal output  Hot water output	2.1 KW @1000W/m <sup>2</sup> and 20°C ambient 450 ltrs/day
Flot water output	450 Itts/day
Module efficiency (electrical DC)	29.5%
Optical efficiency	78%
Combined heat & power efficiency (DC)	75%
Max temperature	-
Max pressure	- // / / / / / / / / / / / / / / / / /
CVCTEM DLIVEICAL DATA	
SYSTEM PHYSICAL DATA Weight	90 kg
LxBxH	2.1 x 2.5 x 1.8
Mirror surface area (Precision optics solar grade)	4.2 m <sup>2</sup>
Receiver area	55 cm <sup>2</sup>
OPERATING CONDITIONS	20 1- 0000
Ambient temperature Relative humidity	-20 to 60°C 0-100%
Wind speed *	15 m/s
Survival wind speed	40 m/s
RECEIVER TECHNICAL DATA	
Cell efficiency	40% at 800x concentration
Max operating temperature Power degradation	90°C
Power degradation  Power degradation with temperature	< 0.2% per year 0.1% /K
Module certifications	MNRE (IEC pending)
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SYSTEM CONNECTIONS	
Input power	24V DC Max 50 W
Communications	CAN Bus
TRACKER SPECIFICATION	
Azimuth	0-300°
Elevation	0-90°
Motors	Stepper motors (closed loop control with
	tracking algorithms)
WARRANTY**	
10 year generation	Max 10% below rated power
20 year generation	Max 20% below rated power
Product	5 years (for workmanship & other defects)
OPERATIONS AND MAINTENANCE Mirror and coolant	5 years (for workmanship & other defects)
OPERATIONS AND MAINTENANCE	

<sup>\*</sup> Move to safe position if >15m/s
\*\* Please see detailed warranty documents