

Technical Specifications

TYPE	COMBINED HEAT & POWER
MODEL	QUADSUN CPV CHP 33-500
COMPONENTS	V
Receiver	Y Y
Concentrator	•
Chassis Mirrore	Y
• Mirrors	Y Y
Tracker Cooling system	Y
System controller	Y
Field controller	Ý
SYSTEM OUTPUTS	
Electrical output (DC)	1 KW DC @1000W/m ² and 20°C ambient
Voltage	500 V DC
Current	2 A
Thermal output	2.3 KW @1000W/m ² and 20°C ambient
Hot water output	500 ltrs/day
Module efficiency (electrical DC)	25.0%
Optical efficiency	78%
Combined heat & power efficiency (DC)	75%
Max temperature	- //
Max pressure	-
0)/07514 010/01044 0451	
SYSTEM PHYSICAL DATA	00 km
Weight L x B x H	90 kg 2.1 x 2.5 x 1.8
Mirror surface area (Precision optics solar grade)	4.2 m ²
Receiver area	55 cm ²
OPERATING CONDITIONS	
Ambient temperature	
Ambient temperature	-20 to 60°C
Relative humidity	0-100%
Relative humidity Wind speed *	0-100% 15 m/s
Relative humidity	0-100%
Relative humidity Wind speed *	0-100% 15 m/s
Relative humidity Wind speed * Survival wind speed RECEIVER TECHNICAL DATA Cell efficiency	0-100% 15 m/s 40 m/s 33.85% at 800x concentration
Relative humidity Wind speed * Survival wind speed RECEIVER TECHNICAL DATA Cell efficiency Max operating temperature	0-100% 15 m/s 40 m/s 33.85% at 800x concentration 90°C
Relative humidity Wind speed * Survival wind speed RECEIVER TECHNICAL DATA Cell efficiency Max operating temperature Power degradation	0-100% 15 m/s 40 m/s 33.85% at 800x concentration 90°C < 0.2% per year
Relative humidity Wind speed * Survival wind speed RECEIVER TECHNICAL DATA Cell efficiency Max operating temperature Power degradation Power degradation with temperature	0-100% 15 m/s 40 m/s 33.85% at 800x concentration 90°C < 0.2% per year 0.1% /K
Relative humidity Wind speed * Survival wind speed RECEIVER TECHNICAL DATA Cell efficiency Max operating temperature Power degradation	0-100% 15 m/s 40 m/s 33.85% at 800x concentration 90°C < 0.2% per year
Relative humidity Wind speed * Survival wind speed RECEIVER TECHNICAL DATA Cell efficiency Max operating temperature Power degradation Power degradation with temperature Module certifications	0-100% 15 m/s 40 m/s 33.85% at 800x concentration 90°C < 0.2% per year 0.1% /K
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Relative humidity Wind speed * Survival wind speed RECEIVER TECHNICAL DATA Cell efficiency Max operating temperature Power degradation Power degradation with temperature Module certifications SYSTEM CONNECTIONS	0-100% 15 m/s 40 m/s 33.85% at 800x concentration 90°C < 0.2% per year 0.1% /K MNRE (IEC pending)
Relative humidity Wind speed * Survival wind speed RECEIVER TECHNICAL DATA Cell efficiency Max operating temperature Power degradation Power degradation with temperature Module certifications SYSTEM CONNECTIONS Input power Communications	0-100% 15 m/s 40 m/s 33.85% at 800x concentration 90°C < 0.2% per year 0.1% /K MNRE (IEC pending)
Relative humidity Wind speed * Survival wind speed RECEIVER TECHNICAL DATA Cell efficiency Max operating temperature Power degradation Power degradation with temperature Module certifications SYSTEM CONNECTIONS Input power Communications TRACKER SPECIFICATION	0-100% 15 m/s 40 m/s 33.85% at 800x concentration 90°C < 0.2% per year 0.1% /K MNRE (IEC pending) 24V DC Max 50 W CAN Bus
Relative humidity Wind speed * Survival wind speed RECEIVER TECHNICAL DATA Cell efficiency Max operating temperature Power degradation Power degradation with temperature Module certifications SYSTEM CONNECTIONS Input power Communications TRACKER SPECIFICATION Azimuth	0-100% 15 m/s 40 m/s 33.85% at 800x concentration 90°C < 0.2% per year 0.1% /K MNRE (IEC pending) 24V DC Max 50 W CAN Bus
Relative humidity Wind speed * Survival wind speed RECEIVER TECHNICAL DATA Cell efficiency Max operating temperature Power degradation Power degradation with temperature Module certifications SYSTEM CONNECTIONS Input power Communications TRACKER SPECIFICATION Azimuth Elevation	0-100% 15 m/s 40 m/s 33.85% at 800x concentration 90°C < 0.2% per year 0.1% /K MNRE (IEC pending) 24V DC Max 50 W CAN Bus 0-300° 0-90°
Relative humidity Wind speed * Survival wind speed RECEIVER TECHNICAL DATA Cell efficiency Max operating temperature Power degradation Power degradation with temperature Module certifications SYSTEM CONNECTIONS Input power Communications TRACKER SPECIFICATION Azimuth	0-100% 15 m/s 40 m/s 33.85% at 800x concentration 90°C < 0.2% per year 0.1% /K MNRE (IEC pending) 24V DC Max 50 W CAN Bus
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Relative humidity Wind speed * Survival wind speed RECEIVER TECHNICAL DATA Cell efficiency Max operating temperature Power degradation Power degradation with temperature Module certifications SYSTEM CONNECTIONS Input power Communications TRACKER SPECIFICATION Azimuth Elevation Motors WARRANTY** 10 year generation 20 year generation	0-100% 15 m/s 40 m/s 33.85% at 800x concentration 90°C < 0.2% per year 0.1% /K MNRE (IEC pending) 24V DC Max 50 W CAN Bus 0-300° 0-90° Stepper motors (closed loop control with tracking algorithms) Max 10% below rated power Max 20% below rated power
Relative humidity Wind speed * Survival wind speed RECEIVER TECHNICAL DATA Cell efficiency Max operating temperature Power degradation Power degradation with temperature Module certifications SYSTEM CONNECTIONS Input power Communications TRACKER SPECIFICATION Azimuth Elevation Motors WARRANTY** 10 year generation	0-100% 15 m/s 40 m/s 33.85% at 800x concentration 90°C < 0.2% per year 0.1% /K MNRE (IEC pending) 24V DC Max 50 W CAN Bus 0-300° 0-90° Stepper motors (closed loop control with tracking algorithms) Max 10% below rated power
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Relative humidity Wind speed * Survival wind speed RECEIVER TECHNICAL DATA Cell efficiency Max operating temperature Power degradation Power degradation with temperature Module certifications SYSTEM CONNECTIONS Input power Communications TRACKER SPECIFICATION Azimuth Elevation Motors WARRANTY** 10 year generation 20 year generation Product	0-100% 15 m/s 40 m/s 33.85% at 800x concentration 90°C < 0.2% per year 0.1% /K MNRE (IEC pending) 24V DC Max 50 W CAN Bus 0-300° 0-90° Stepper motors (closed loop control with tracking algorithms) Max 10% below rated power Max 20% below rated power

^{*} Move to safe position if >15m/s
** Please see detailed warranty documents