

TECHNICAL SPECIFICATIONS

CST H3500

THERMAL PERFORMANCE

Thermal power rating	3.8 KW @1000 W/m ² and 25°C ambient
Optical efficiency	85% based on collector area
First degree losses	0.20 W/m ² K
Second degree losses	0.001 W/m ² K ²
Max temperature	160°C
Max pressure	8 bar

OPERATING ENVIRONMENT RANGE

Wind speed (tracking)	15 m/s (value is programmable)
Wind speed survival	40 m/s
Ambient temperature	60°C
Humidity	100% RH
Terrain	No constraint (rooftop or ground mount)
Max working fluid pressure	10 bar
Max working fluid temperature	180°C

SYSTEM PHYSICAL DATA

L x B x H (max)	2.1 x 2.5 x 1.8 m
Weight	90 kg
Mirror surface area	4.4 m ²
Receiver diameter	90 mm

SYSTEM INPUTS

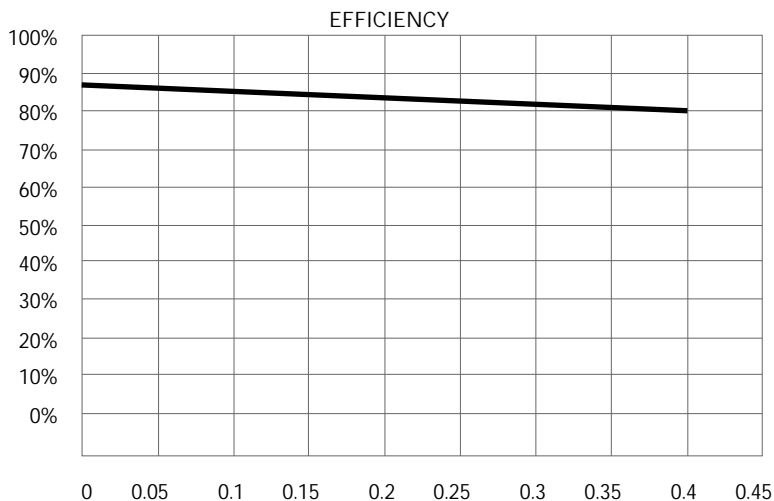
Power	24V DC and 50 W
Fluid inputs	¾" hoses (silicone or EPDM)

INDIVIDUAL SYSTEM CONTROLS AND SAFETY

Tracking	Optical based, accuracy 0.001° (Always on sun)
Flow switch	Standard 4 ltrs/min (System goes off sun if flow is lower and can be set)
Sun tracking algorithm	NREL based
Wake up and sleep	Fully automatic user setting available

FIELD CONTROLLER

- Microprocessor based
- Monitors and logs field data
- 4 analog channels and 4 relays
- Grid sensing for power availability
- Intelligent monitoring for individual system health
- Remote monitoring



Exceptionally high efficiency makes QUADSUN CST H3500 the most cost-effective concentrated solar thermal solution.