

Heat Pipe CC-Series CC Absorber

Glass tube size: Ø58mm-1800mm

Wall thickness of tube: 1.6mm

Thermal expansion: 3.3×10^{-6} m/k

Mechanical hardness: 0.8 Mpa

Absorption coefficient: > 0.93

Emissivity: < 0.07

Temperature loss of tube: $< 0.6 \text{ W} / \text{m}^2\text{K}$

Glass material: high-quality borosilicate glass 3.3

Absorbing coating: CU/SS-ALN

Stagnation temperature: 250 C

Starting temperature: 25 C

Vacuum: 5×10^{-3} Pa

Hail resistance: 30mm

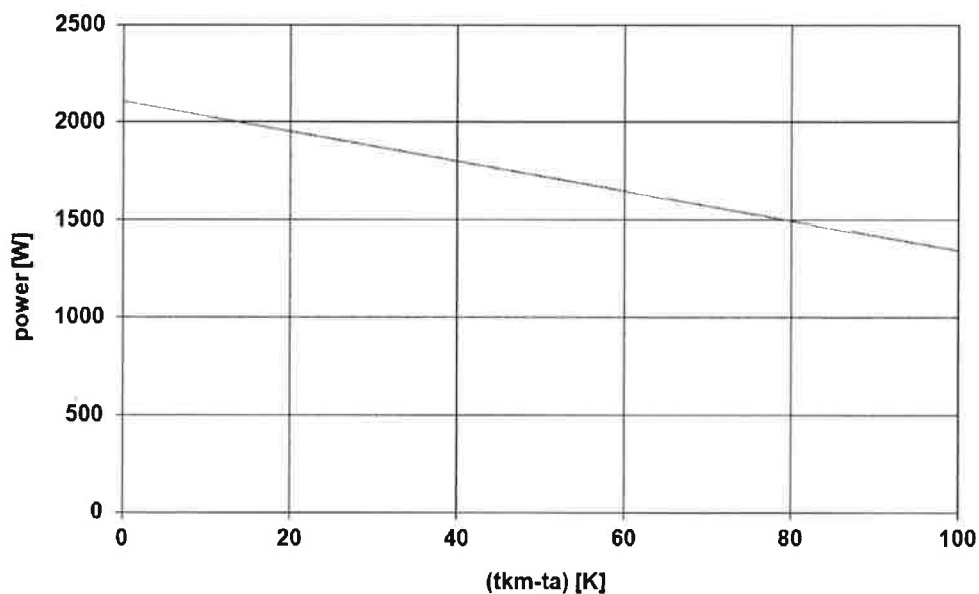
Wind resistance: 130 km/hour



Output power per collector unit (CC-58-1800-30)

$T_m - T_a$ in K	Irradiation		
	400 W/m ²	700 W/m ²	1000 W/m ²
10	766	1398	2030
30	614	1245	1877
50	461	1093	1724

Power curve per collector unit (for $G = 1000 \text{ W/m}^2$)



Complete System Drawing

