

Mono Pumps Computer Aided Solar Simulation

Quotation Number 2800W 6 MILE

System Type Sun Sub
 System Size [w] 2800
 Array Type Tracking
 Country United Kingdom
 Location PENZANCE
 Latitude 50.10
 Longitude -5.30
 Array Tilt Angle 7

Static Head [m] 12.9
 Pipe Length [m] 10000
 Pipe Size 110mm Metric Class 12.5
 Cable Length [m] 30
 Cable Size [mm] 2.50
 Water Temp [deg C] 25
 % of Max Flow 100.0 %

MPPT Size Series 3000 SMC
 Motor Size Series 3000
 Pump Size SM101
 Drive Ratio 1.0
 System Part Number SS2800MA055T

Typical Performance at 1000W/m ²	
Flow [L/min]	148.1
Friction Head [m]	30.7
Total Head [m]	43.6
Pump Speed	3231
Pump Efficiency	88%
Motor Efficiency	92%
Cable Loss	1%
System Efficiency	49%

Month	Daily Flow [m ³ /day]	Horizontal Irradiation
January	29.5	0.6
February	56.6	1.4
March	79.8	2.6
April	104.9	4.2
May	116.4	4.9
June	123.2	5.6
July	114.2	4.8
August	99.6	4.0
September	81.6	2.9
October	62.3	1.7
November	42.6	0.9
December	26.8	0.5
Average	78.1	2.8

Notes

2800 WATT 6 MILES LAGOON

