

Mono Pumps Computer Aided Solar Simulation

Quotation Number MarioP350R

System Type Sun Sub
 System Size [w] 350
 Array Type Tracking

Country Italy
 Location Firenze
 Latitude 43.80
 Longitude 11.20
 Array Tilt Angle 44

Static Head [m] 55
 Pipe Length [m] 90
 Pipe Size 32mm Metric Class 12.5
 Cable Length [m] 65
 Cable Size [mm] 2.50
 Water Temp [deg C] 25
 % of Max Flow 100.0 %

MPPT Size Series 1000 SMC
 Motor Size Series 1000
 Pump Size SM022
 Drive Ratio 1.0
 System Part Number SS0350MA080T

Typical Performance at 1000W/m ²	
Flow [L/min]	21.4
Friction Head [m]	3.3
Total Head [m]	58.3
Pump Speed	3077
Pump Efficiency	99%
Motor Efficiency	75%
Cable Loss	1%
System Efficiency	67%

Month	Daily Flow [m ³ /day]	Horizontal Irradiation
January	1.5	1.0
February	2.6	1.6
March	4.1	2.6
April	7.6	4.4
May	9.8	5.9
June	10.8	6.4
July	10.7	6.4
August	9.6	5.4
September	7.3	3.9
October	4.9	2.4
November	2.1	1.2
December	1.2	0.8
Average	6.0	3.5

Notes

10mtr/day June - August

