



The results are determined by a mathematical model calculation. The actual yields of the photovoltaic system

can deviate from these values due to fluctuations in the weather, the efficiency of modules and inverters, and other factors. The System Diagram above does not represent and cannot replace a full technical drawing of the solar system.



Please enter under Options-> Settings

Project Name: Variant Reference: kit ECO iluminat ieftin System Variant 04-02-2016

S	stem	in Stand-Alo	ne Operation
			DUCULARES

Location:	BUCHARI	EST/OTOPENI	PV Output:	280.0 Wp		
Climate Data Record:	BUCHAREST/OTOPENI		Gross/Active PV Surface Area:	2.5 m² / 2.5 m²		
Number of Arrays:	1					
Array 1: Array Name						
Output:	0.28 kW		Ground Reflection:	20.0 %		
Gross/Active Solar	2.5 m² /	2.5 m²	Output Losses due to			
Surface Area:	2		devietien forme ANA 1 Fr	1.0.0/		
PV Module	2 X		deviation from AM 1.5:	1.0 %		
Manufacturer:	Suriery Solar Sri.		Construction from Manufacturer's	2.0 %		
Model	VD 36/156 - 140 VT		in Diodos	0 5 0/-		
Nominal Output:	140 W		due to Pollution:	0.0%		
Power Rating Deviation	0 %			0.0 /0		
Efficiency (STC)	11 3 %					
No. of Modules in Series:	1					
MPP Voltage (STC):	18 V					
Orientation:	0.0 °					
Inclination:	30.0 °					
Mount: with Ver		ilation				
Shade:	No					
Battery		· ·				
Manufacturer:	Sonnens	chein	Mean Charge Efficiency:	85.0 %		
Model:	dryfit sola	ar block SB	Mean Discharge Efficiency:	99.0 %		
12/2		5	Chause Controller			
Nominal Voltage: 12.0 V			Lower Battony Discharge	20.0.0/		
C20 Capacity:	165.0 AN		Throshold:	30.0 %		
Self Discharge: 0.1%		a	mesnola.			
Stand-Alone System Inv	erter					
Manufacturer: FEGmb			Nom. DC Voltage:	12.0 V		
Model: Sontime		1210N	Stand-by Consumption:	0.0 W		
AC Power Rating: 1.0 kW			Efficiency at Nominal Output:	91.0 %		
Nom. AC Voltage: 230.0 V						
Individual Appliances To	otal Consi	mption: 158 kW	/h			
IV (occasional use)			Model: User-Dependent Appl.	117 kWh		
New			Model: Light	41 kWh		
Simulation Poculto	for Tota	Suctom				
Irradiation onto Horizontal			Batton/Lossos	20 k/W/b		
PV Array Irradiation		4 028 kWh	Charge Condition at Simulattion	30.0%		
FV Anay Inadiation.		4,020 KWII	Start	50.0 /0		
Irradiation minus Reflection		3 854 kWh	Charge Condition at Simulattion	30.0 %		
Inadiation minus Reflection.		5,051 1.00	End.			
Energy Produced by PV Ar	rav:	295 kWh	Solar Fraction:	86.3 %		
Consumption Requirement:		158 kWh	Performance Ratio:	29.7 %		
Direct Use of PV Energy:		38 kWh	Final Yield:	1.3 h/d		
Consumption Not Covered by		22 kWh	Specific Annual Yield:	486 kWh/kWp		
System:			-	· ·		
PV Array Surplus:		76 kWh	System Efficiency:	3.4 %		
Consumption Covered by Solar		136 kWh	Array Efficiency:	7.3 %		
Energy:						
Battery Discharge:		152 kWh	Inverter Efficiency:	71.7 %		
Battery Charge:		181 kWh	Battery Efficiency:	83.9 %		





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