

File Name	2Kw mono.prg	2Kw tynd sharp.prg	2Kw tynd.prg
Variant Reference	System Variant	System Variant	System Variant
Project Name	Solar System Design	Solar System Design	Solar System Design
Climate Data Record	KARUP_(DAN-AFB)_1981_2000.wbv	KARUP_(DAN-AFB)_1981_2000.wbv	KARUP_(DAN-AFB)_1981_2000.wbv
***SYSTEM PARAMETERS***			
Number of Arrays	1	1	1
PV Output [kW]	2,00	2,03	2,00
Gross PV Surface Area [m²]	12,77	21,33	30,80
System Inverter	Array Inverter	Array Inverter	Array Inverter
Array1	System 1	System 1	System 1
Array Output [kW]	2,00	2,03	2,00
Array Gross Surface [m²]	12,77	21,33	30,80
PV Modules	Solia A/S AS-5M 200W	SHARP Corporation NA-F135G5	SunGen International Limited SG-HN 100-GG
Number of Modules	10	15	20
Number of Modules in Series	5	5	4
Orientation [°]	0,0	0,0	0,0
Inclination [°]	45,0	45,0	45,0
Mount	with Ventilation	with Ventilation	with Ventilation
Inverter	Aros Sirio 2000	Aros Sirio 2000	Aros Sirio 2000
Number of Inverters	1	1	1
***SIMULATION RESULTS***			
PV Array Irradiation [ kWh]	14.289	23.956	34.526
Energy from Inverter (AC) [ kWh]	1.930	1.891	1.966
Energy to Grid [ kWh]	1.930	1.891	1.966
Consumption Requirement [ kWh]	0	0	0
Energy from Grid [ kWh]	10	10	10
Solar Fraction [ %]	0,0	0,0	0,0
System Efficiency [ %]	13,4	7,9	5,7
Performance Ratio [ %]	85,6	82,9	87,2
Specific Annual Yield [ kWh/kWp]	960	929	978
Array Efficiency [ %]	14,5	8,5	6,1
Inverter Efficiency [ %]	92,5	92,1	92,6
***ECONOMIC EFFICIENCY***			
Net Present Value [kr.]	-2.061	-2.319	-1.929
Payback Period [Years]	100	100	100
Electricity Production Costs [kr./kWh]	0,33	0,35	0,33