

SMARTER ENERGY SOLUTION

Preventive Maintenance Solar System



Customer Name :	Kiri-Villa - Diana	Maintenance :	MA	Date :	1 August 2025
Solar Panel		Inverter			
Brand	Model	Capacity	Install	Brand	Model
Gamko	GKA120M450	10 kWp.	22 Panels	Solis	3P10K-60 1107A2216070014

Before Preventive Maintenance Solar System

Solar Panels	Operating Voltage / Current				Time	Inspection		Remark
String 1	Panels	Vmp 384.6 Vdc	Voc 500.8 Vdc	Isc 10.61 A.	12 : 30	✓	Pass	Not Pass
String 2	Panels	Vmp 220.2 Vdc	Voc 286.0 Vdc	Isc 10.80 A.	:	✓	Pass	Not Pass
String 3	Panels	Vmp Vdc	Voc Vdc	Isc A.	:		Pass	Not Pass
String 4	Panels	Vmp Vdc	Voc Vdc	Isc A.	:		Pass	Not Pass
String 5	Panels	Vmp Vdc	Voc Vdc	Isc A.	:		Pass	Not Pass
String 6	Panels	Vmp Vdc	Voc Vdc	Isc A.	:		Pass	Not Pass
String 7	Panels	Vmp Vdc	Voc Vdc	Isc A.	:		Pass	Not Pass
String 8	Panels	Vmp Vdc	Voc Vdc	Isc A.	:		Pass	Not Pass
String 9	Panels	Vmp Vdc	Voc Vdc	Isc A.	:		Pass	Not Pass
String 10	Panels	Vmp Vdc	Voc Vdc	Isc A.	:		Pass	Not Pass
String 11	Panels	Vmp Vdc	Voc Vdc	Isc A.	:		Pass	Not Pass
String 12	Panels	Vmp Vdc	Voc Vdc	Isc A.	:		Pass	Not Pass

After Preventive Maintenance Solar System

Solar Panels	Operating Voltage / Current				Time	Inspection		Remark
String 1	Panels	Vmp 419.8 Vdc	Voc 519.2 Vdc	Isc 8.63 A.	13 : 15	✓	Pass	Not Pass
String 2	Panels	Vmp 292.6 Vdc	Voc 295.4 Vdc	Isc 8.90 A.	:	✓	Pass	Not Pass
String 3	Panels	Vmp Vdc	Voc Vdc	Isc A.	:		Pass	Not Pass
String 4	Panels	Vmp Vdc	Voc Vdc	Isc A.	:		Pass	Not Pass
String 5	Panels	Vmp Vdc	Voc Vdc	Isc A.	:		Pass	Not Pass
String 6	Panels	Vmp Vdc	Voc Vdc	Isc A.	:		Pass	Not Pass
String 7	Panels	Vmp Vdc	Voc Vdc	Isc A.	:		Pass	Not Pass
String 8	Panels	Vmp Vdc	Voc Vdc	Isc A.	:		Pass	Not Pass
String 9	Panels	Vmp Vdc	Voc Vdc	Isc A.	:		Pass	Not Pass
String 10	Panels	Vmp Vdc	Voc Vdc	Isc A.	:		Pass	Not Pass
String 11	Panels	Vmp Vdc	Voc Vdc	Isc A.	:		Pass	Not Pass
String 12	Panels	Vmp Vdc	Voc Vdc	Isc A.	:		Pass	Not Pass

Inverter Inspection

Device	Field Measured Readings		Readings from Inverter Display		Readings from Smarter Meter		Field Measured Back Up	
Inverter	AC Line Voltage		AC Line Voltage		AC Line Voltage		AC Line Voltage	
	Phase L1 to Grd :	231.3 Vac.	Phase L1 to Grd :	231.7 Vac.	Phase L1 to Grd :	231.9 Vac.	Phase L1 to Grd :	Vac.
	Phase L2 to Grd :	235.4 Vac.	Phase L2 to Grd :	235.0 Vac.	Phase L2 to Grd :	234.4 Vac.	Phase L2 to Grd :	Vac.
	Phase L3 to Grd :	233.5 Vac.	Phase L3 to Grd :	231.9 Vac.	Phase L3 to Grd :	233.6 Vac.	Phase L3 to Grd :	Vac.
	AC Line Current		AC Line Current		AC Line Current			
	Phase L1 to Grd :	3.69 A.	Phase L1 to Grd :	2.90 A.	Phase L1 to Grd :	2.70 A.		
	Phase L2 to Grd :	3.06 A.	Phase L2 to Grd :	2.80 A.	Phase L2 to Grd :	2.10 A.		
	Phase L3 to Grd :	3.14 A.	Phase L3 to Grd :	2.90 A.	Phase L3 to Grd :	2.10 A.		

Comment :

Inspection By :

(Bonham Library) Project Engineer

Date : / /