

SMARTER ENERGY SOLUTION

Preventive Maintenance Solar System



Customer Name :				Andamaya B1		Maintenance :		MA		Date :		18 September 2023	
Solar Panel						Inverter							
Brand		Model		Capacity		Install		Brand		Model		S/N	
Exxon		EX480TC		20 kWp.		30 Panels		Solis		SS-AR3P20K		18050B0238040023	

Before Preventive Maintenance Solar System

Solar Panels		Operating Voltage / Current					Time	Inspection			Remark					
String 1	Panels	Vmp	320.9	Vdc	Voc	380.6	Vdc	Isc	3.55	A.	12:00	✓	Pass		Not Pass	
String 2	Panels	Vmp	319.7	Vdc	Voc	382.3	Vdc	Isc	2.93	A.	:	✓	Pass		Not Pass	
String 3	Panels	Vmp	326.0	Vdc	Voc	379.2	Vdc	Isc	3.65	A.	:	✓	Pass		Not Pass	
String 4	Panels	Vmp	318.4	Vdc	Voc	380.4	Vdc	Isc	4.35	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	335.7	Vdc	Voc	382.4	Vdc	Isc	1.86	A.	12 : 45	✓	Pass		Not Pass	whom
String 2	Panels	Vmp	346.3	Vdc	Voc	382.6	Vdc	Isc	2.03	A.	:	✓	Pass		Not Pass	
String 3	Panels	Vmp	345.8	Vdc	Voc	380.9	Vdc	Isc	2.65	A.	:	✓	Pass		Not Pass	
String 4	Panels	Vmp	346.4	Vdc	Voc	380.7	Vdc	Isc	2.29	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 :	234.0	Vac.	Phase L1 to Grd :	233.7	Vac.	Phase L1 to Grd :	235.4	Vac.	Phase L1 to Grd :		Vac.
	Phase L2 to Grd :	232.1	Vac.	Phase L2 to Grd :	236.9	Vac.	Phase L2 to Grd :	232.5	Vac.	Phase L2 to Grd :		Vac.
	Phase L3 to Grd :	234.5	Vac.	Phase L3 to Grd :	231.7	Vac.	Phase L3 to Grd :	234.9	Vac.	Phase L3 to Grd :		Vac.
	AC Line Current			AC Line Current			AC Line Current					
	Phase L1 to Grd :	4.60	A.	Phase L1 to Grd :	9.70	A.	Phase L1 to Grd :	3.40	A.			
	Phase L2 to Grd :	8.60	A.	Phase L2 to Grd :	9.10	A.	Phase L2 to Grd :	2.60	A.			
	Phase L3 to Grd :	4.80	A.	Phase L3 to Grd :	9.00	A.	Phase L3 to Grd :	3.60	A.			

Comment :

Inspection By :

(Bunham Library) Project Engineer

Date : / /