

SMARTER ENERGY SOLUTION

Preventive Maintenance Solar System



Customer Name : <u>Punggisa Plot 8</u>				Maintenance : <u>MA</u>	Date : <u>5 April 2025</u>
Solar Panel				Inverter	
Brand	Model	Capacity	Install	Brand	Model
Sonnax	8VX-B60HND-480M	10 kWp.	21 Panels	SoliJ	SG-GR310K
				S/N	
				1806060236270043	

Before Preventive Maintenance Solar System

Solar Panels		Operating Voltage / Current					Time	Inspection		Remark
String 1	Panels	Vmp	391.8	Vdc	Voc	427.3	Vdc	Isc	12.00 A.	14:30 ✓
String 2	Panels	Vmp	324.9	Vdc	Voc	388.5	Vdc	Isc	11.47	✓
String 3	Panels	Vmp		Vdc	Voc		Vdc	Isc	A.	Pass
String 4	Panels	Vmp		Vdc	Voc		Vdc	Isc	A.	Pass
String 5	Panels	Vmp		Vdc	Voc		Vdc	Isc	A.	Pass
String 6	Panels	Vmp		Vdc	Voc		Vdc	Isc	A.	Pass
String 7	Panels	Vmp		Vdc	Voc		Vdc	Isc	A.	Pass
String 8	Panels	Vmp		Vdc	Voc		Vdc	Isc	A.	Pass
String 9	Panels	Vmp		Vdc	Voc		Vdc	Isc	A.	Pass
String 10	Panels	Vmp		Vdc	Voc		Vdc	Isc	A.	Pass
String 11	Panels	Vmp		Vdc	Voc		Vdc	Isc	A.	Pass
String 12	Panels	Vmp		Vdc	Voc		Vdc	Isc	A.	Pass

After Preventive Maintenance Solar System

Solar Panels		Operating Voltage / Current					Time	Inspection		Remark
String 1	Panels	Vmp	386.0	Vdc	Voc	447.3	Vdc	Isc	9.66 A.	15:00 ✓
String 2	Panels	Vmp	349.2	Vdc	Voc	409.7	Vdc	Isc	9.47 A.	✓
String 3	Panels	Vmp		Vdc	Voc		Vdc	Isc	A.	Pass
String 4	Panels	Vmp		Vdc	Voc		Vdc	Isc	A.	Pass
String 5	Panels	Vmp		Vdc	Voc		Vdc	Isc	A.	Pass
String 6	Panels	Vmp		Vdc	Voc		Vdc	Isc	A.	Pass
String 7	Panels	Vmp		Vdc	Voc		Vdc	Isc	A.	Pass
String 8	Panels	Vmp		Vdc	Voc		Vdc	Isc	A.	Pass
String 9	Panels	Vmp		Vdc	Voc		Vdc	Isc	A.	Pass
String 10	Panels	Vmp		Vdc	Voc		Vdc	Isc	A.	Pass
String 11	Panels	Vmp		Vdc	Voc		Vdc	Isc	A.	Pass
String 12	Panels	Vmp		Vdc	Voc		Vdc	Isc	A.	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 :	236.8	Vac.	Phase L1 to Grd :	237.9	Vac.	Phase L1 to Grd :	237.5
	Phase L2 to Grd :	239.3	Vac.	Phase L2 to Grd :	237.9	Vac.	Phase L2 to Grd :	235.7
	Phase L3 to Grd :	235.8	Vac.	Phase L3 to Grd :	238.5	Vac.	Phase L3 to Grd :	235.9
	AC Line Current		AC Line Current		AC Line Current			
	Phase L1 to Grd :	10.81	A.	Phase L1 to Grd :	1.60	A.	Phase L1 to Grd :	4.90
	Phase L2 to Grd :	10.35	A.	Phase L2 to Grd :	8.60	A.	Phase L2 to Grd :	3.90
	Phase L3 to Grd :	10.68	A.	Phase L3 to Grd :	8.10	A.	Phase L3 to Grd :	10.80

Comment :

Inspection By :

(Bunham Libney) Project Engineer

Date : / /

SMARTER ENERGY SOLUTION

Electrical Room Inspection



Device	Ambient Temp	Temperature						Remark
Inverter	47.8 °C	Inside :	58.3 °C	Outside :	49.3 °C	Heatsync :	60.0 °C	
AC Cabinet	41.2 °C	MCB Breaker :	41.9 °C	RCCB Breaker :	41.7 °C	AC SPD :	41.5 °C	
			40 A.		40 A.		3 Phase	
		Smart Meter :	42.3 °C	AC Terminal	41.6 °C	CT Ratio :	./ A.	
			3 Phase	AC Cable :	10 Sq.m.	Meter Ratio :	A.	
		String No.	DC Fuse	DC Breaker	DC SPD	MC4 Connector		
DC Cabinet	52.7 °C	String 1	49.2 °C	49.3 °C	49.9 °C	42.8 °C		
		String 2	53.4 °C	48.9 °C	44.5 °C	43.4 °C		
		String 3	°C	°C	°C	°C		
		String 4	°C	°C	°C	°C		
		String 5	°C	°C	°C	°C		
		String 6	°C	°C	°C	°C		
		String 7	°C	°C	°C	°C		
		String 8	°C	°C	°C	°C		
		String 9	°C	°C	°C	°C		
		String 10	°C	°C	°C	°C		
		String 11	°C	°C	°C	°C		
		String 12	°C	°C	°C	°C		
EE Room	48.3 °C	AC Cable :	25 Sq.m.	Main Breaker :	100 A.	MCCB Feed :	A.	
		Wireway :	46.4 °C	MDB / LC :	42.8 °C		°C	

Comment : _____

Inspection By :

(Bunharn Libnoy)Project Engineer

Date : ____/____/____