

SMARTER ENERGY SOLUTION

Preventive Maintenance Solar System



Customer Name : Mr. Giles

Maintenance : MA

Date : 28 April 2025

Solar Panel				Inverter		
Brand	Model	Capacity	Install	Brand	Model	S/N
Gama	92A 120M498	5 kWp.	15 Panels	Solis	SR-GR3P5K	1009020215190362

Before Preventive Maintenance Solar System

Solar Panels		Operating Voltage / Current					Time	Inspection		Remark
String 1	5 Panels	Vmp 159.5	Vdc	Voc 170.7	Vdc	Isc 4.77 A.	10 : 15	✓	Pass	Not Pass
String 2	10 Panels	Vmp 280.6	Vdc	Voc 353.5	Vdc	Isc 7.59 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	5 Panels	Vmp 160.8	Vdc	Voc 180.8	Vdc	Isc 7.63 A.	11 : 00	✓	Pass	Not Pass
String 2	10 Panels	Vmp 289.7	Vdc	Voc 361.9	Vdc	Isc 8.59 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 :	231.6	Vac. Phase L1 to Grd :	232.9	Vac. Phase L1 to Grd :	232.1	Vac. Phase L1 to Grd :	Vac.
	Phase L2 to Grd :	232.4	Vac. Phase L2 to Grd :	233.5	Vac. Phase L2 to Grd :	233.2	Vac. Phase L2 to Grd :	Vac.
	Phase L3 to Grd :	234.8	Vac. Phase L3 to Grd :	239.4	Vac. Phase L3 to Grd :	239.4	Vac. Phase L3 to Grd :	Vac.
	AC Line Current		AC Line Current		AC Line Current			
	Phase L1 to Grd :	3.62	A. Phase L1 to Grd :	3.20	A. Phase L1 to Grd :	3.40	A.	
	Phase L2 to Grd :	3.64	A. Phase L2 to Grd :	3.30	A. Phase L2 to Grd :	2.70	A.	
	Phase L3 to Grd :	3.75	A. Phase L3 to Grd :	3.20	A. Phase L3 to Grd :	2.40	A.	

Comment :

Inspection By :

(Bunham Libroy) Project Engineer

Date : / /

SMARTER ENERGY SOLUTION

Electrical Room Inspection



Device	Ambient Temp	Temperature						Remark
Inverter	42.3 °C	Inside :	47.5 °C	Outside :	43.2 °C	Heatsync :	47.4 °C	
AC Cabinet	40.7 °C	MCB Breaker :	40.1 °C	RCCB Breaker :	°C	AC SPD :	43.2 °C	
			40 A.		A.		3 Phase	
		Smart Meter :	44.6 °C	AC Terminal	42.6 °C	CT Ratio :	/ A.	
			3 Phase	AC Cable :	4 Sq.m.	Meter Ratio :	A.	
		String No.	DC Fuse	DC Breaker	DC SPD	MC4 Connector		
DC Cabinet	40.3 °C	String 1	42.1 °C	40.9 °C	41.7 °C	39.1 °C		
		String 2	40.7 °C	39.6 °C	39.2 °C	40.2 °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	40.6 °C	AC Cable :	16 Sq.m.	Main Breaker :	60 A.	MCCB Feed :	A.	
		Wireway :	36.7 °C	MDB / LC :	39.8 °C		°C	

Comment :

Inspection By :

(Bunharn Libnoy)Project Engineer

Date : ____/____/____