

SMARTER ENERGY SOLUTION

Preventive Maintenance Solar System



Customer Name :	Extra Hotel	Maintenance :	MA	Date :	7 May 2025
Solar Panel			Inverter		
Brand	Model	Capacity	Install	Brand	Model
Sonnet	50X-560mm-480W	20 kWp	30 Panels	Sis	59-GR3P20K
			S/N		
			18050B023818003E		

Before Preventive Maintenance Solar System

Solar Panels	Operating Voltage / Current					Time	Inspection		Remark
String 1	15 Panels	Vmp	529.4 Vdc	Voc	597.8 Vdc	Isc	4.36 A	9:15	✓ Pass
String 2	15 Panels	Vmp	527.6 Vdc	Voc	597.5 Vdc	Isc	4.05 A	:	✓ Pass
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	15 Panels	Vmp	518.6 Vdc	Voc	607.3 Vdc	Isc	4.90 A	10:30	✓ Pass
String 2	15 Panels	Vmp	516.5 Vdc	Voc	607.2 Vdc	Isc	4.97 A	:	✓ Pass
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 :	234.7	Vac.	Phase L1 to Grd :	232.4	Vac.	Phase L1 to Grd :	237.9
	Phase L2 to Grd :	237.0	Vac.	Phase L2 to Grd :	240.8	Vac.	Phase L2 to Grd :	237.3
	Phase L3 to Grd :	232.6	Vac.	Phase L3 to Grd :	232.7	Vac.	Phase L3 to Grd :	237.7
	AC Line Current		AC Line Current		AC Line Current			
	Phase L1 to Grd :	6.38	A.	Phase L1 to Grd :	6.90	A.	Phase L1 to Grd :	14.40
	Phase L2 to Grd :	6.06	A.	Phase L2 to Grd :	6.90	A.	Phase L2 to Grd :	8.20
	Phase L3 to Grd :	6.39	A.	Phase L3 to Grd :	6.90	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	40.7 °C	Inside :	44.3 °C	Outside :	42.1 °C	Heatsync :	45.0 °C	
AC Cabinet	39.8 °C	MCB Breaker :	39.6 °C	RCCB Breaker :	°C	AC SPD :	39.1 °C	
			40 A.		A.		3 Phase	
		Smart Meter :	43.5 °C	AC Terminal	39.4 °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	37.6 °C	String 1	41.2 °C	38.1 °C	38.6 °C	37.8 °C		
		String 2	39.4 °C	39.0 °C	40.5 °C	37.6 °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	37.9 °C	AC Cable :	250 Sq.m.	Main Breaker :	4500 A.	MCCB Feed :	A.	
		Wireway :	38.5 °C	MDB / LC :	40.1 °C		°C	

Comment : _____

Inspection By : _____

(Bunharn Libnoy)Project Engineer

Date : ____/____/____