

SMARTER ENERGY SOLUTION

Preventive Maintenance Solar System



Customer Name : Botanica Floresta D28				Maintenance : MA	Date : 28 April 2025	
Solar Panel				Inverter		
Brand	Model	Capacity	Install	Brand	Model	S/N
Ex100	EX480 TC	20 kWp.	30 Panels	Solis SA-G13P20K-ND1A		1033160249100132

Before Preventive Maintenance Solar System

Solar Panels	Operating Voltage / Current				Time	Inspection		Remark
String 1	Panels	Vmp 242.0 Vdc	Voc 291.4 Vdc	Isc 2.32 A	19:00	✓	Pass	Not Pass
String 2	Panels	Vmp 432.5 Vdc	Voc 503.5 Vdc	Isc 2.15 A	:	✓	Pass	Not Pass
String 3	Panels	Vmp 347.9 Vdc	Voc 388.1 Vdc	Isc 2.29 A	:	✓	Pass	Not Pass
String 4	Panels	Vmp	Vdc	Isc A	:		Pass	Not Pass
String 5	Panels	Vmp	Vdc	Isc A	:		Pass	Not Pass
String 6	Panels	Vmp	Vdc	Isc A	:		Pass	Not Pass
String 7	Panels	Vmp	Vdc	Isc A	:		Pass	Not Pass
String 8	Panels	Vmp	Vdc	Isc A	:		Pass	Not Pass
String 9	Panels	Vmp	Vdc	Isc A	:		Pass	Not Pass
String 10	Panels	Vmp	Vdc	Isc A	:		Pass	Not Pass
String 11	Panels	Vmp	Vdc	Isc A	:		Pass	Not Pass
String 12	Panels	Vmp	Vdc	Isc A	:		Pass	Not Pass

After Preventive Maintenance Solar System

Solar Panels	Operating Voltage / Current				Time	Inspection		Remark
String 1	Panels	Vmp 274.1 Vdc	Voc 276.2 Vdc	Isc 2.36 A	16:00	✓	Pass	Not Pass
String 2	Panels	Vmp 428.7 Vdc	Voc 512.7 Vdc	Isc 2.14 A	:	✓	Pass	Not Pass
String 3	Panels	Vmp 376.1 Vdc	Voc 395.4 Vdc	Isc 2.29 A	:	✓	Pass	Not Pass
String 4	Panels	Vmp	Vdc	Isc A	:		Pass	Not Pass
String 5	Panels	Vmp	Vdc	Isc A	:		Pass	Not Pass
String 6	Panels	Vmp	Vdc	Isc A	:		Pass	Not Pass
String 7	Panels	Vmp	Vdc	Isc A	:		Pass	Not Pass
String 8	Panels	Vmp	Vdc	Isc A	:		Pass	Not Pass
String 9	Panels	Vmp	Vdc	Isc A	:		Pass	Not Pass
String 10	Panels	Vmp	Vdc	Isc A	:		Pass	Not Pass
String 11	Panels	Vmp	Vdc	Isc A	:		Pass	Not Pass
String 12	Panels	Vmp	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 :	252.0 Vac.	Phase L1 to Grd :	Vac.	Phase L1 to Grd :	Vac.	Phase L1 to Grd :	Vac.
	Phase L2 to Grd :	231.9 Vac.	Phase L2 to Grd :	Vac.	Phase L2 to Grd :	Vac.	Phase L2 to Grd :	Vac.
	Phase L3 to Grd :	232.9 Vac.	Phase L3 to Grd :	Vac.	Phase L3 to Grd :	Vac.	Phase L3 to Grd :	Vac.
	AC Line Current		AC Line Current		AC Line Current			
	Phase L1 to Grd :	5.76 A.	Phase L1 to Grd :	A.	Phase L1 to Grd :	A.		
	Phase L2 to Grd :	3.62 A.	Phase L2 to Grd :	A.	Phase L2 to Grd :	A.		
	Phase L3 to Grd :	1.88 A.	Phase L3 to Grd :	A.	Phase L3 to Grd :	A.		

Comment :

Inspection By :

(Bunham Libroy) Project Engineer

Date : / /

SMARTER ENERGY SOLUTION

Electrical Room Inspection



Device	Ambient Temp	Temperature						Remark
Inverter	42.4 °C	Inside :	47.6 °C	Outside :	46.4 °C	Heatsync :	49.7 °C	
AC Cabinet	42.3 °C	MCB Breaker :	40.9 °C	RCCB Breaker :	44.1 °C	AC SPD :	42.3 °C	
			40 A.		40 A.		3 Phase	
		Smart Meter :	°C	AC Terminal	41.7 °C	CT Ratio :	/ A.	
			Phase	AC Cable :	10 Sq.m.	Meter Ratio :	A.	
		String No.	DC Fuse	DC Breaker	DC SPD	MC4 Connector		
DC Cabinet	41.9 °C	String 1	42.3 °C	42.7 °C	41.4 °C	39.8 °C		
		String 2	42.6 °C	42.7 °C	42.3 °C	40.9 °C		
		String 3	41.9 °C	41.4 °C	41.4 °C	40.1 °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	41.9 °C	AC Cable :	25 Sq.m.	Main Breaker :	80 A.	MCCB Feed :	A.	
		Wireway :	42.3 °C	MDB / LC :	42.6 °C		°C	

Comment : _____

Inspection By : _____

(Bunharn Libnoy)Project Engineer

Date : ____/____/____