

SMARTER ENERGY SOLUTION

Preventive Maintenance Solar System



Customer Name :		Chaiyapong Plastic		Maintenance :	MA	Date :	20 October 2023	
Solar Panel				Inverter				
Brand	Model	Capacity	Install	Brand	Model	S/N		
COM	EX 480TC	400 kWp.	96 Panels	Solar	85-GC40K	1811040236290007		

Before Preventive Maintenance Solar System

Solar Panels		Operating Voltage / Current						Time	Inspection			Remark			
String 1	Panels	Vmp	623.0	Vdc	Voc	711.4	Vdc	Isc	1.80 A.	7 : 30	✓	Pass		Not Pass	
String 2	Panels	Vmp	620.4	Vdc	Voc	711.9	Vdc	Isc	1.80 A.	:	✓	Pass		Not Pass	
String 3	Panels	Vmp	592.8	Vdc	Voc	709.3	Vdc	Isc	1.89 A.	:	✓	Pass		Not Pass	
String 4	Panels	Vmp	619.4	Vdc	Voc	704.8	Vdc	Isc	1.82 A.	:	✓	Pass		Not Pass	
String 5	Panels	Vmp	609.3	Vdc	Voc	676.6	Vdc	Isc	2.98 A.	:	✓	Pass		Not Pass	
String 6	Panels	Vmp	416.0	Vdc	Voc	676.6	Vdc	Isc	2.61 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	609.3	Vdc	Voc	720.8	Vdc	Isc	2.60 A.	10 : 30	✓	Pass		Not Pass
String 2	Panels	Vmp	604.7	Vdc	Voc	728.1	Vdc	Isc	2.60 A.	:	✓	Pass		Not Pass
String 3	Panels	Vmp	600.2	Vdc	Voc	716.4	Vdc	Isc	2.40 A.	:	✓	Pass		Not Pass
String 4	Panels	Vmp	607.4	Vdc	Voc	711.3	Vdc	Isc	2.45 A.	:	✓	Pass		Not Pass
String 5	Panels	Vmp	404.4	Vdc	Voc	489.4	Vdc	Isc	2.86 A.	:	✓	Pass		Not Pass
String 6	Panels	Vmp	402.6	Vdc	Voc	488.3	Vdc	Isc	2.89 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 :	232.7	Vac. Phase L1 to Grd :	233.8	Vac. Phase L1 to Grd :	232.9	Vac. Phase L1 to Grd :	Vac.
	Phase L2 to Grd :	233.8	Vac. Phase L2 to Grd :	233.3	Vac. Phase L2 to Grd :	234.0	Vac. Phase L2 to Grd :	Vac.
	Phase L3 to Grd :	231.4	Vac. Phase L3 to Grd :	231.9	Vac. Phase L3 to Grd :	234.2	Vac. Phase L3 to Grd :	Vac.
	AC Line Current		AC Line Current		AC Line Current			
	Phase L1 to Grd :	8.16	A. Phase L1 to Grd :	8.00	A. Phase L1 to Grd :	7.20	A.	
	Phase L2 to Grd :	8.45	A. Phase L2 to Grd :	8.20	A. Phase L2 to Grd :	7.20	A.	
	Phase L3 to Grd :	9.12	A. Phase L3 to Grd :	8.30	A. Phase L3 to Grd :	7.20	A.	

Comment :

Inspection By :

(Benham Libney) Project Engineer

Date : / /