

SMARTER ENERGY SOLUTION

Preventive Maintenance Solar System



Customer Name : <u>PTT Chutimat</u>		Maintenance : <u>MA</u>	Date : <u>1 May 2025</u>
Solar Panel		Inverter	
Brand : <u>Sonnix</u>	Model : <u>SNX-HPD60-480W</u>	Capacity : <u>20</u> kWp.	Install : <u>92</u> Panels
Brand : <u>Solis</u>	Model : <u>SH-GR3P20K</u>	S/N : <u>18050 B0246220102</u>	

Before Preventive Maintenance Solar System

Solar Panels		Operating Voltage / Current						Time	Inspection		Remark
String 1	<u>13</u> Panels	Vmp	Vdc	Voc <u>493.4</u>	Vdc	Isc	A.	<u>11 : 00</u>	Pass	Not Pass	
String 2	<u>13</u> Panels	Vmp	Vdc	Voc <u>493.5</u>	Vdc	Isc	A.	:	Pass	Not Pass	
String 3	<u>13</u> Panels	Vmp	Vdc	Voc <u>492.3</u>	Vdc	Isc	A.	:	Pass	Not Pass	
String 4	<u>13</u> Panels	Vmp	Vdc	Voc <u>492.2</u>	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	<u>13</u> Panels	Vmp	Vdc	Voc <u>528.3</u>	Vdc	Isc	A.	<u>12 : 00</u>	Pass	Not Pass	<u>No Load</u>
String 2	<u>13</u> Panels	Vmp	Vdc	Voc <u>520.6</u>	Vdc	Isc	A.	:	Pass	Not Pass	<u>misconnection solved</u>
String 3	<u>13</u> Panels	Vmp	Vdc	Voc <u>526.4</u>	Vdc	Isc	A.	:	Pass	Not Pass	<u>2nd version 7-11</u>
String 4	<u>13</u> Panels	Vmp	Vdc	Voc <u>528.1</u>	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 : 231.4	Vac.	Phase L1 to Grd :	Vac.	Phase L1 to Grd :	Vac.	Phase L1 to Grd :	Vac.
	Phase L2 to Grd : 232.2	Vac.	Phase L2 to Grd :	Vac.	Phase L2 to Grd :	Vac.	Phase L2 to Grd :	Vac.
	Phase L3 to Grd : 233.1	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 :	A.	Phase L1 to Grd :	A.	Phase L1 to Grd :	A.		
	Phase L2 to Grd :	A.	Phase L2 to Grd :	A.	Phase L2 to Grd :	A.		
	Phase L3 to Grd :	A.	Phase L3 to Grd :	A.	Phase L3 to Grd :	A.		

Comment :

Inspection By :

(Bunharn Limnong) Project Engineer

Date : ____ / ____ / ____

SMARTER ENERGY SOLUTION

Electrical Room Inspection



Device	Ambient Temp	Temperature						Remark
Inverter	40.1 °C	Inside :	45.8 °C	Outside :	48.2 °C	Heatsync :	47.3 °C	
AC Cabinet	39.8 °C	MCB Breaker :	40.7 °C	RCCB Breaker :	41.2 °C	AC SPD :	42.5 °C	
			60 A.		40 A.		3 Phase	
		Smart Meter :	41.4 °C	AC Terminal	42.3 °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	38.9 °C	String 1	39.5 °C	39.5 °C	39.0 °C	39.3 °C		
		String 2	39.7 °C	39.1 °C	39.6 °C	39.7 °C		
		String 3	40.1 °C	40.0 °C	39.7 °C	39.0 °C		
		String 4	39.4 °C	40.1 °C	40.9 °C	40.1 °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	38.6 °C	AC Cable :	50 Sq.m.	Main Breaker :	120 A.	MCCB Feed :	A.	
		Wireway :	39.4 °C	MDB / LC :	37.8 °C		°C	

Comment : _____

Inspection By : _____

(Bunharn Libnoy)Project Engineer

Date : ____/____/____