

SMARTER ENERGY SOLUTION

Preventive Maintenance Solar System



Customer Name : Som Apartment				Maintenance : 2xk		Date : 10/4/2024	
Solar Panel				Inverter			
Brand	Model	Capacity	Install	Brand	Model	S/N	
		23.75 Wp.	53 Panels	Solis	53-5R0P20K	18050B0229130340	

Before Preventive Maintenance Solar System									
Solar Panels	Operating Voltage / Current				Time	Inspection		Remark	
String 1	16 Panels	Voc 593 Vdc	Vmp 445 Vdc	Isc 3.2 A	1	☒	Pass	☐	Not Pass
String 2	16 Panels	Voc 580 Vdc	Vmp 441 Vdc	Isc 3.5 A	1	☒	Pass	☐	Not Pass
String 3	16 Panels	Voc 482 Vdc	Vmp 360 Vdc	Isc 3.4 A	1	☒	Pass	☐	Not Pass
String 4	11 Panels	Voc 600 Vdc	Vmp 364 Vdc	Isc 4.1 A	1	☒	Pass	☐	Not Pass

After Preventive Maintenance Solar System									
Solar Panels	Operating Voltage / Current				Time	Inspection		Remark	
String 1	16 Panels	Voc 594 Vdc	Vmp 428 Vdc	Isc 4 A	1	☐	Pass	☐	Not Pass
String 2	16 Panels	Voc 594 Vdc	Vmp 482 Vdc	Isc 4.1 A	1	☐	Pass	☐	Not Pass
String 3	16 Panels	Voc 450 Vdc	Vmp 380 Vdc	Isc 3.7 A	1	☐	Pass	☐	Not Pass
String 4	11 Panels	Voc 510 Vdc	Vmp 369 Vdc	Isc 4 A	1	☐	Pass	☐	Not Pass

Inverter Inspection				Remark	
Device	Readings from Smarter Meter	Readings from Inverter Display	Field Measured Readings		
Inverter	AC Line Voltage		AC Line Voltage		
	Phase L1 to Grd : _____ Vac	Phase L1 to Grd : _____ Vac	Phase L1 to Grd : _____ Vac		
	Phase L2 to Grd : _____ Vac	Phase L2 to Grd : _____ Vac	Phase L2 to Grd : _____ Vac		
	Phase L3 to Grd : _____ Vac	Phase L3 to Grd : _____ Vac	Phase L3 to Grd : _____ Vac		
	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 :

Item	Solar System Inspection	Inspection		Remark
1	Clean the Solar panel (Use clean water) ทำความสะอาดแผงโซลาร์เซลล์ (ใช้น้ำสะอาด)	☒	Pass	☐ Not Pass
2	Check to see if the solar panel's condition ตรวจสอบการแตกร้าวของแผงโซลาร์เซลล์	☒	Pass	☐ Not Pass
3	Inspect the mounting points of the roof mounting support legs for the risk of water leaking. (Use ตรวจสอบจุดยึดของ Support ที่ติดบนหลังคา ว่ามีจุดเสี่ยงที่จะทำให้น้ำรั่วไหลหรือไม่	☒	Pass	☐ Not Pass
4	Inspect the mounting parts of the solar cell. ตรวจสอบสภาพโครงสร้างของแผง PV, Mounting และอุปกรณ์ประกอบอื่นๆ ไม่หลวม	☒	Pass	☐ Not Pass
5	Inspect the condition of all cables to make sure The cables does not sag down to the roof. ตรวจสอบสภาพของสายเคเบิลทั้งหมดให้แน่นเ็นิ่ง ไม่ห้อยลงมาถึงหลังคา	☒	Pass	☐ Not Pass
6	Inspect the tightness of the wire terminals. ตรวจสอบความแน่นของขั้วสายไฟ	☒	Pass	☐ Not Pass
6.1	AC - Grid in Inverter	☒	Pass	☐ Not Pass
6.2	Back - up in Inverter (Specific model Hybrid)	☐	Pass	☐ Not Pass
6.3	Battery (Specific model Hybrid)	☐	Pass	☐ Not Pass
6.4	AC Breaker	☒	Pass	☐ Not Pass
6.5	DC Breaker	☐	Pass	☐ Not Pass
6.6	Fuse Holder	☒	Pass	☐ Not Pass
6.7	Surge Protection	☒	Pass	☐ Not Pass
6.8	Smarter Meter & CT (Current Transformer)	☒	Pass	☐ Not Pass
7	Check whether the SISO Switch is defective ตรวจสอบ SISO Switch ว่าชำรุดหรือไม่	☒	Pass	☐ Not Pass
8	Inspect for malfunctions of the inverter and other related electrical equipment. ตรวจสอบความผิดปกติของอินเวอร์เตอร์และอุปกรณ์ไฟฟ้าอื่นๆ ที่เกี่ยวข้อง	☒	Pass	☐ Not Pass
9	Inspect heat of the solar panel whether there is an abnormal heat point or not การตรวจสอบความร้อนของแผงโซลาร์เซลล์ว่ามีความร้อนผิดปกติหรือไม่	☒	Pass	☐ Not Pass

Comment :

Inspection By :

Manote

Date : 10/4/2567

SMARTER ENERGY SOLUTION

Inverter / EPM Setting Inspection



Customer : _____ Inverter : _____ No. : _____ Password : 0010

Item	Manu	Select 1	Select 2	Select 3	Select 4	Remark
1	Inverter Address	☒ 01	☐ 02	☐ 03	☐ _____	
2	Select Standard	☒ PEA	☐ MEA	☐ _____	☐ _____	
3	Grid ON/OFF	☒ ON	☐ OFF	☐ _____	☐ _____	
4	24Hrs. Switch	☒ Enable	☐ Disable	☐ _____	☐ _____	
5	Internal EPM Set > Mode Select	☒ Meter In Grid	☐ Meter In Load	☐ Consumption	☐ NO Meter	
6	Internal EPM Set > Backflow Power	☐ 0	☒ +100	☒ + <u>100</u>	☐ - _____	
7	Internal EPM Set > Fail Safe ON/OFF	☒ ON	☐ OFF	☐ _____	☐ _____	
8	Internal EPM Set > Backflow Work Mode	☒ Mode 1	☐ Mode 2	☐ _____	☐ _____	
9	HMI Update	☐ YES	☒ NO	☐ _____	☐ _____	
10	DSP Update	☒ YES	☐ NO	☐ _____	☐ _____	
11	External EPM Set	☐ 5G-EPM	☐ Others-EPM	☐ _____	☐ _____	No have

Inverter : _____ No. : _____ Password : 0010

Item	Manu	Select 1	Select 2	Select 3	Select 4	Remark
1	Inverter / EPM Address	☐ 01	☐ 02	☐ 03	☐ _____	
2	Select Standard	☐ PEA	☐ MEA	☐ _____	☐ _____	
3	Grid ON/OFF	☐ ON	☐ OFF	☐ _____	☐ _____	
4	24Hrs. Switch	☐ Enable	☐ Disable	☐ _____	☐ _____	
5	Internal EPM Set > Mode Select	☐ Meter In Grid	☐ Meter In Load	☐ Consumption	☐ NO Meter	
6	Internal EPM Set > Backflow Power	☐ 0	☐ +100	☐ + _____	☐ - _____	
7	Internal EPM Set > Fail Safe ON/OFF	☐ ON	☐ OFF	☐ _____	☐ _____	
8	Internal EPM Set > Backflow Work Mode	☐ Mode 1	☐ Mode 2	☐ _____	☐ _____	
9	HMI Update	☐ YES	☐ NO	☐ _____	☐ _____	
10	DSP Update	☐ YES	☐ NO	☐ _____	☐ _____	
11	External EPM Set	☐ 5G-EPM	☐ Others-EPM	☐ _____	☐ _____	

Inspection By :

M. Anwar

Date :

10/4/2022