

SMARTER ENERGY SOLUTION

Preventive Maintenance Solar System



Customer Name : Alinda

Maintenance : MA

Date : 13 September 2024

Solar Panel				Inverter		
Brand	Model	Capacity	Install	Brand	Model	S/N
<u>Castlux</u>	<u>CL450M5-60H</u>	<u>10</u> Kwp.	<u>27</u> Panels	<u>Solis</u>	<u>IS5GR3P10K</u>	<u>1A05060236270045</u>

Before Preventive Maintenance Solar System

Solar Panels	Operating Voltage / Current				Time	Inspection		Remark
String 1	Panels	Voc <u>602.8</u> Vdc	Vmp <u>521.3</u> Vdc	Isc <u>3.07</u> A.	<u>13:00</u>	☒ Pass	☐ Not Pass	
String 2	Panels	Voc <u>482.3</u> Vdc	Vmp <u>419.5</u> Vdc	Isc <u>2.95</u> A.	:	☒ Pass	☐ Not Pass	
String 3	Panels	Voc _____ Vdc	Vmp _____ Vdc	Isc _____ A.	:	☐ Pass	☐ Not Pass	
String 4	Panels	Voc _____ Vdc	Vmp _____ Vdc	Isc _____ A.	:	☐ Pass	☐ Not Pass	
String 5	Panels	Voc _____ Vdc	Vmp _____ Vdc	Isc _____ A.	:	☐ Pass	☐ Not Pass	
String 6	Panels	Voc _____ Vdc	Vmp _____ Vdc	Isc _____ A.	:	☐ Pass	☐ Not Pass	
String 7	Panels	Voc _____ Vdc	Vmp _____ Vdc	Isc _____ A.	:	☐ Pass	☐ Not Pass	
String 8	Panels	Voc _____ Vdc	Vmp _____ Vdc	Isc _____ A.	:	☐ Pass	☐ Not Pass	
String 9	Panels	Voc _____ Vdc	Vmp _____ Vdc	Isc _____ A.	:	☐ Pass	☐ Not Pass	
String 10	Panels	Voc _____ Vdc	Vmp _____ Vdc	Isc _____ A.	:	☐ Pass	☐ Not Pass	
String 11	Panels	Voc _____ Vdc	Vmp _____ Vdc	Isc _____ A.	:	☐ Pass	☐ Not Pass	
String 12	Panels	Voc _____ Vdc	Vmp _____ Vdc	Isc _____ A.	:	☐ Pass	☐ Not Pass	

After Preventive Maintenance Solar System

Solar Panels	Operating Voltage / Current				Time	Inspection		Remark
String 1	Panels	Voc <u>600.4</u> Vdc	Vmp <u>529.3</u> Vdc	Isc <u>2.09</u> A.	<u>14:00</u>	☒ Pass	☐ Not Pass	
String 2	Panels	Voc <u>480.4</u> Vdc	Vmp <u>463.0</u> Vdc	Isc <u>2.12</u> A.	:	☒ Pass	☐ Not Pass	
String 3	Panels	Voc _____ Vdc	Vmp _____ Vdc	Isc _____ A.	:	☐ Pass	☐ Not Pass	
String 4	Panels	Voc _____ Vdc	Vmp _____ Vdc	Isc _____ A.	:	☐ Pass	☐ Not Pass	
String 5	Panels	Voc _____ Vdc	Vmp _____ Vdc	Isc _____ A.	:	☐ Pass	☐ Not Pass	
String 6	Panels	Voc _____ Vdc	Vmp _____ Vdc	Isc _____ A.	:	☐ Pass	☐ Not Pass	
String 7	Panels	Voc _____ Vdc	Vmp _____ Vdc	Isc _____ A.	:	☐ Pass	☐ Not Pass	
String 8	Panels	Voc _____ Vdc	Vmp _____ Vdc	Isc _____ A.	:	☐ Pass	☐ Not Pass	
String 9	Panels	Voc _____ Vdc	Vmp _____ Vdc	Isc _____ A.	:	☐ Pass	☐ Not Pass	
String 10	Panels	Voc _____ Vdc	Vmp _____ Vdc	Isc _____ A.	:	☐ Pass	☐ Not Pass	
String 11	Panels	Voc _____ Vdc	Vmp _____ Vdc	Isc _____ A.	:	☐ Pass	☐ Not Pass	
String 12	Panels	Voc _____ Vdc	Vmp _____ Vdc	Isc _____ A.	:	☐ Pass	☐ Not Pass	

Inverter Inspection

Device	Readings from Smarter Meter	Readings from Inverter Display	Field Measured Readings	Remark
Inverter	AC Line Voltage		AC Line Voltage	
	Phase L1 to Grd : <u>235.8</u> Vac	Phase L1 to Grd : <u>235.2</u> Vac	Phase L1 to Grd : <u>234.5</u> Vac	
	Phase L2 to Grd : <u>232.1</u> Vac	Phase L2 to Grd : <u>232.2</u> Vac	Phase L2 to Grd : <u>230.3</u> Vac	
	Phase L3 to Grd : <u>228.8</u> Vac	Phase L3 to Grd : <u>228.9</u> Vac	Phase L3 to Grd : <u>229.1</u> Vac	
	AC Line Current		AC Line Current	
	Phase L1 to Grd : <u>4.90</u> A	Phase L1 to Grd : <u>3.20</u> A	Phase L1 to Grd : <u>2.69</u> A	
	Phase L2 to Grd : <u>6.00</u> A	Phase L2 to Grd : <u>3.10</u> A	Phase L2 to Grd : <u>2.95</u> A	
	Phase L3 to Grd : <u>15.00</u> A	Phase L3 to Grd : <u>3.20</u> A	Phase L3 to Grd : <u>3.12</u> A	

Comment : _____