

SMARTER ENERGY SOLUTION

Preventive Maintenance Solar System



Customer Name : <u>State Road</u>			Maintenance : <u>MA</u>	Date : <u>19 October 2025</u>
Solar Panel			Inverter	
Brand	Model	Capacity	Install	S/N
<u>Enviom</u>	<u>EX480TC</u>	<u>10</u> kWp.	<u>24</u> Panels	<u>S5-GR3P10K180A060238040064</u>

Before Preventive Maintenance Solar System

Solar Panels	Operating Voltage / Current					Time	Inspection		Remark
String 1	Panels	Vmp <u>439.3</u> Vdc	Voc <u>593.1</u> Vdc	Isc <u>8.60</u> A.		<u>13:00</u>	☒ Pass	☐ Not Pass	
String 2	Panels	Vmp <u>292.7</u> Vdc	Voc <u>330.4</u> Vdc	Isc <u>8.40</u> A.		:	☒ Pass	☐ Not Pass	
String 3	Panels	Vmp Vdc	Voc Vdc	Isc A.		:	☐ Pass	☐ Not Pass	
String 4	Panels	Vmp Vdc	Voc 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	Panels	Vmp <u>421.7</u> Vdc	Voc <u>608.4</u> Vdc	Isc <u>8.60</u> A.		<u>13:45</u>	☒ Pass	☐ Not Pass	
String 2	Panels	Vmp <u>290.0</u> Vdc	Voc <u>346.9</u> Vdc	Isc <u>4.80</u> A.		:	☒ Pass	☐ Not Pass	
String 3	Panels	Vmp Vdc	Voc Vdc	Isc A.		:	☐ Pass	☐ Not Pass	
String 4	Panels	Vmp Vdc	Voc 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 :	<u>226.1</u> Vac.	Phase L1 to Grd :	<u>225.4</u> Vac.	Phase L1 to Grd :	<u>226.0</u> Vac.	Phase L1 to Grd :	Vac.
	Phase L2 to Grd :	<u>227.3</u> Vac.	Phase L2 to Grd :	<u>230.7</u> Vac.	Phase L2 to Grd :	<u>226.6</u> Vac.	Phase L2 to Grd :	Vac.
	Phase L3 to Grd :	<u>226.6</u> Vac.	Phase L3 to Grd :	<u>223.5</u> Vac.	Phase L3 to Grd :	<u>229.7</u> Vac.	Phase L3 to Grd :	Vac.
	AC Line Current		AC Line Current		AC Line Current			
	Phase L1 to Grd :	<u>6.20</u> A.	Phase L1 to Grd :	<u>10.40</u> A.	Phase L1 to Grd :	<u>7.20</u> A.		
	Phase L2 to Grd :	<u>6.90</u> A.	Phase L2 to Grd :	<u>10.30</u> A.	Phase L2 to Grd :	<u>9.60</u> A.		
	Phase L3 to Grd :	<u>8.10</u> A.	Phase L3 to Grd :	<u>10.60</u> A.	Phase L3 to Grd :	<u>10.80</u> A.		

Comment :

Inspection By :

(Busham Library) Project Engineer

Date : / /