

SMARTER ENERGY SOLUTION

Preventive Maintenance Solar System



Customer Name : Katima Building 8		Maintenance : MA	Date : 6 December 2024
Solar Panel			Inverter
Brand	Model	Capacity Kwp.	Install Panels
			Brand Solis
			Model SE-GR3P20K
			S/N 1871040244260121

Before Preventive Maintenance Solar System						
Solar Panels	Operating Voltage / Current			Time	Inspection	Remark
String 1	Panels Voc 533.3 Vdc	Vmp 472.0 Vdc	Isc 10.8 A.	11:00	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Not Pass	
String 2	Panels Voc 496.9 Vdc	Vmp 407.5 Vdc	Isc 9.6 A.	:	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Not Pass	
String 3	Panels Voc 499.3 Vdc	Vmp 406.5 Vdc	Isc 10.28 A.	:	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Not Pass	
String 4	Panels Voc 496.4 Vdc	Vmp 424.7 Vdc	Isc 10.45 A.	:	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Not Pass	
String 5	Panels Voc 498.4 Vdc	Vmp 422.9 Vdc	Isc 10.46 A.	:	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Not Pass	
String 6	Panels Voc 494.0 Vdc	Vmp 409.9 Vdc	Isc 12.78 A.	:	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Not Pass	
String 7	Panels Voc 536.2 Vdc	Vmp 430.9 Vdc	Isc 12.72 A.	:	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Not Pass	
String 8	Panels Voc 499.0 Vdc	Vmp 433.9 Vdc	Isc 12.53 A.	:	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Not Pass	
String 9	Panels Voc 672.2 Vdc	Vmp 577.8 Vdc	Isc 15.78 A.	:	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Not Pass	
String 10	Panels Voc 673.3 Vdc	Vmp 574.9 Vdc	Isc 13.59 A.	:	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Not Pass	
String 11	Panels Voc 532.8 Vdc	Vmp 415.3 Vdc	Isc 12.85 A.	:	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Not Pass	
String 12	Panels Voc 533.0 Vdc	Vmp 436.9 Vdc	Isc 11.87 A.	:	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Not Pass	

After Preventive Maintenance Solar System						
Solar Panels	Operating Voltage / Current			Time	Inspection	Remark
String 13	Panels Voc 499.4 Vdc	Vmp 328.2 Vdc	Isc 10.10 A.	14:00	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Not Pass	
String 14	Panels Voc 622.0 Vdc	Vmp 534.9 Vdc	Isc 7.10 A.	:	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Not Pass	
String 15	Panels Voc 573.9 Vdc	Vmp 494.2 Vdc	Isc 6.80 A.	:	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Not Pass	
String 4	Panels Voc	Vdc	Vmp	Vdc	Isc	A.
String 5	Panels Voc	Vdc	Vmp	Vdc	Isc	A.
String 6	Panels Voc	Vdc	Vmp	Vdc	Isc	A.
String 7	Panels Voc	Vdc	Vmp	Vdc	Isc	A.
String 8	Panels Voc	Vdc	Vmp	Vdc	Isc	A.
String 9	Panels Voc	Vdc	Vmp	Vdc	Isc	A.
String 10	Panels Voc	Vdc	Vmp	Vdc	Isc	A.
String 11	Panels Voc	Vdc	Vmp	Vdc	Isc	A.
String 12	Panels Voc	Vdc	Vmp	Vdc	Isc	A.

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 :	228.8 Vac	Phase L1 to Grd :	229.5 Vac
	Phase L2 to Grd :	227.4 Vac	Phase L2 to Grd :	228.3 Vac
	Phase L3 to Grd :	228.4 Vac	Phase L3 to Grd :	228.5 Vac
	AC Line Current		AC Line Current	
	Phase L1 to Grd :	32.6 A	Phase L1 to Grd :	10.6 A
	Phase L2 to Grd :	150.6 A	Phase L2 to Grd :	10.4 A
Phase L3 to Grd :	118.6 A	Phase L3 to Grd :	10.5 A	
				Phase L1 to Grd : 230.2 Vac
				Phase L2 to Grd : 226.6 Vac
				Phase L3 to Grd : 227.4 Vac
				Phase L1 to Grd : 9.05 A
				Phase L2 to Grd : 6.23 A
				Phase L3 to Grd : 9.34 A

Comment : _____