

MPPT 3K Transfer efficiency Test

Test Purpose

To test the efficiency is whether fit for the spec. And providing the efficiency curve at different PV input.

Equipment:

No	Equipment	Supplier (Manufacturer), Model Name	Quantity
1	DC Source	62024P-80-60	2
2	PV Source	62150H-1000S	1
3	DC Meter	WT210	1
4	Load	DC Load	1
5	PC		1

Condition:

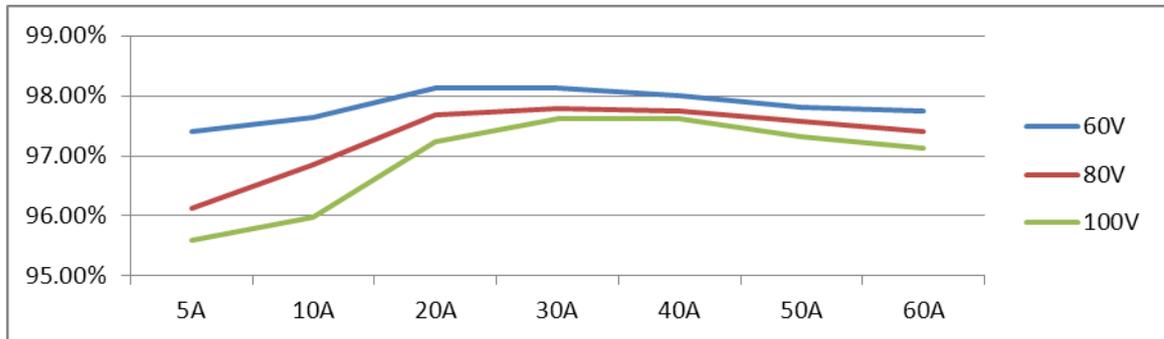
1. Temperature: 25°C
2. Hardware Version: 71-600056-00G
3. Firmware Version:

Method:

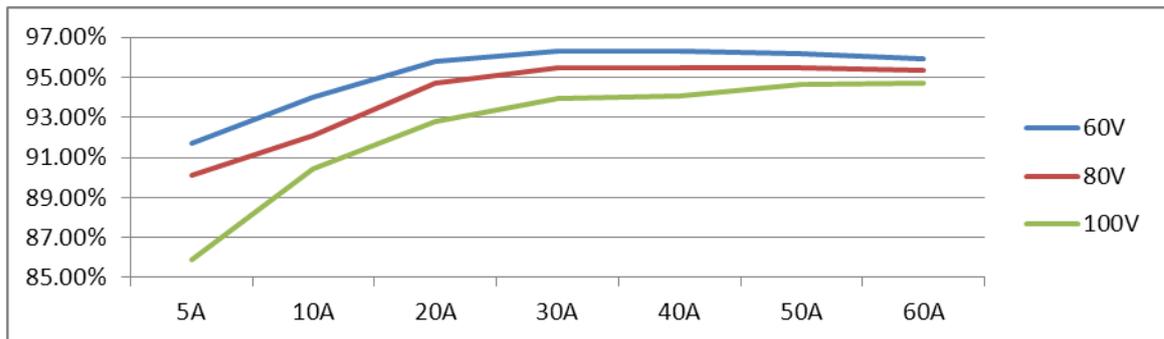
1. Connect the PV source to PV port and connect the DC source on battery side and in parallel DC R load with DC source;
2. Switch on the PV source and check the charge current;
3. Let the MPPT working about half an hour at max charging current before testing;
4. Test the unit efficiency by recording the input PV power and output charging power;

Test records:

BAT	PV	5A	10A	20A	30A	40A	50A	60A
48V	60V	97.41%	97.65%	98.13%	98.14%	98.00%	97.80%	97.75%
48V	80V	96.13%	96.85%	97.69%	97.79%	97.75%	97.57%	97.41%
48V	100V	95.59%	95.97%	97.24%	97.61%	97.62%	97.33%	97.13%



BAT	PV	5A	10A	20A	30A	40A	50A	60A
24V	60V	91.72%	93.99%	95.78%	96.32%	96.31%	96.16%	95.94%
24V	80V	90.09%	92.11%	94.70%	95.45%	95.47%	95.48%	95.36%
24V	100V	85.86%	90.43%	92.81%	93.91%	94.06%	94.67%	94.68%



BAT	PV	5A	10A	20A	30A	40A	50A	60A
12V	60V	81.14%	86.12%	89.31%	89.87%	89.57%	89.32%	88.50%
12V	80V	75.48%	82.90%	86.81%	87.63%	88.10%	87.98%	87.11%
12V	100V	73.57%	79.68%	84.69%	87.08%	86.36%	86.00%	85.32%

