



PDS1-45K

MPPT Efficiency Test Report

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1. Test Device and Tools

Device: PDS1-45K

Tools: Action Solar Simulator



2. Test contents

The efficiency test is read directly from the operating screen of the PV simulator . Since MPPT is a perturbed mode of operation, the efficiency will float within a certain range, and the recorded data is the middle value of the float, which can be guaranteed to be above 99% of the value floated.

simula tion curve	MPPT Voltage	Power									
		10 %	20 %	30%	40%	50%	60%	70%	80%	90%	100%
1 String	750V	99. 54 %	99. 88 %	99.84 %	99.89 %	99.86 %	99.88 %	99.89 %	99.91 %	99.95 %	99.94 %
	680V	99. 60 %	99. 74 %	99.83 %	99.90 %	99.65 %	99.84 %	99.83 %	99.87 %	99.86 %	99.82 %
	600V	99. 67 %	99. 90 %	99.86 %	99.77 %	99.82 %	99.87 %	99.64 %	99.96 %	99.61 %	99.65 %
	430V	99. 84 %	99. 92 %	99.89 %	99.80 %	99.82 %	99.54 %	99.82 %	99.84 %	99.61 %	99.84 %
2 String	750V	99. 50 %	99. 89 %	99.87 %	99.89 %	99.93 %	99.93 %	99.92 %	99.95 %	99.90 %	99.98 %
	680V	99. 94 %	99. 81 %	99.70 %	99.92 %	99.90 %	99.86 %	99.81 %	99.90 %	99.30 %	99.68 %
	600V	99. 82 %	99. 92 %	99.76 %	99.87 %	99.80 %	99.81 %	99.86 %	99.86 %	99.79 %	99.87 %
	430V	99. 86 %	99. 89 %	99.90 %	99.87 %	99.80 %	99.76 %	99.81 %	99.84 %	99.79 %	99.87 %
3 String	750V	99. 67 %	99. 89 %	99.89 %	99.88 %	99.90 %	99.87 %	99.80 %	99.90 %	99.89 %	99.58 %
	680V	99. 74 %	99. 85 %	99.73 %	99.88 %	99.60 %	99.73 %	99.73 %	99.72 %	99.64 %	99.69 %
	600V	99. 89 %	99. 50 %	99.86 %	99.80 %	99.60 %	99.78 %	99.54 %	99.79 %	99.80 %	99.78 %
	430V	99. 89 %	99. 86 %	99.90 %	99.75 %	99.84 %	99.48 %	99.64 %	99.70 %	99.70 %	99.80 %