

# 1 Experimental Results

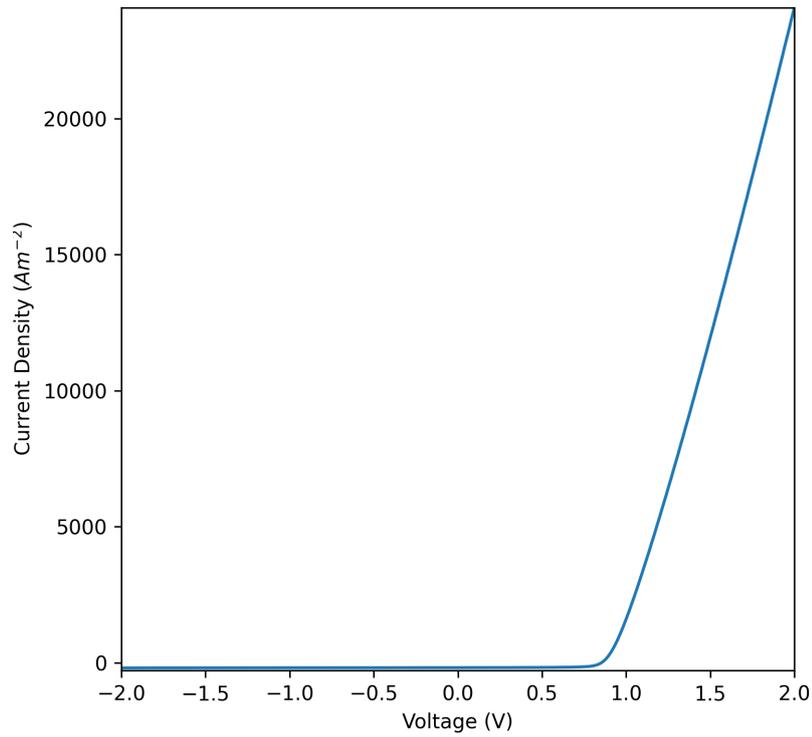


Figure 1: Experimental Input Characteristic

Table 1: Parameters calculable from input characteristic

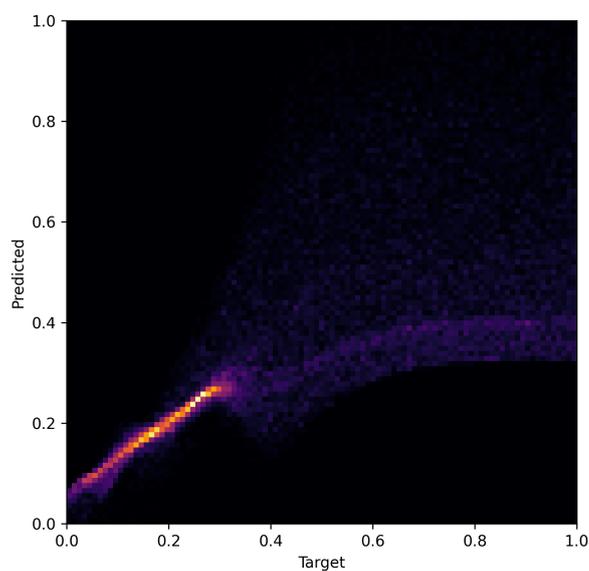
Parameter	Value	Unit
Jsc	176.250	$Am^{-2}$
Voc	0.850	$V$
FF	0.739	<i>a.u</i>
Pmax	110.700	$Wm^{-2}$
PCE	11.070	<i>Percent</i>

## 2 Machine Learning Parameters

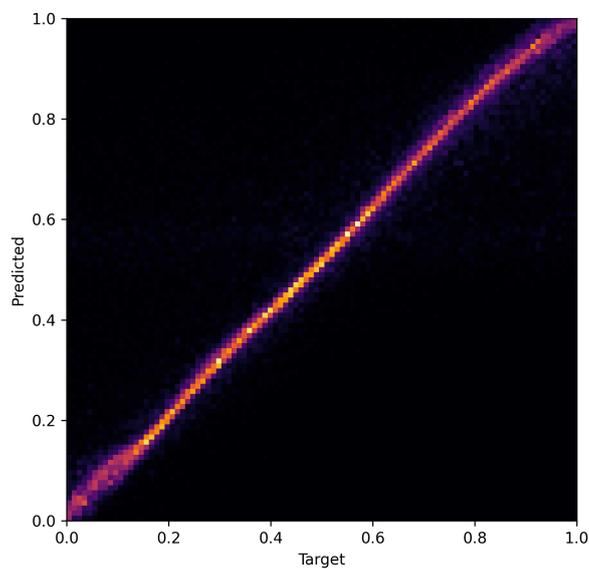
Table 2: Machine learning predictions by the single method

Parameters	Mean	Units	MAPE (%)
Shunt resistance	0.136	QLabel	47.465
Series resistance	3.959	QLabel	8.997
Fill factor	1.099	QLabel	42.179
Power conversion efficiency (PCE)	11.687	QLabel	6.607
$V_{oc}$	0.867	QLabel	6.218
$J_{sc}$	-2.05e+02	QLabel	2.645

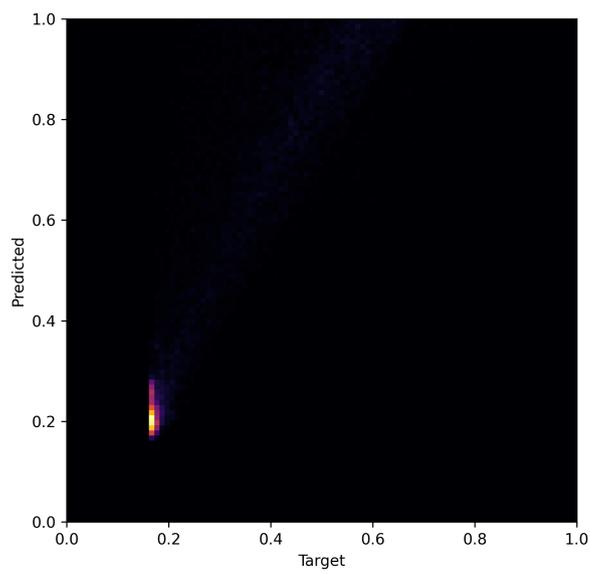
### 2.1 Shunt resistance



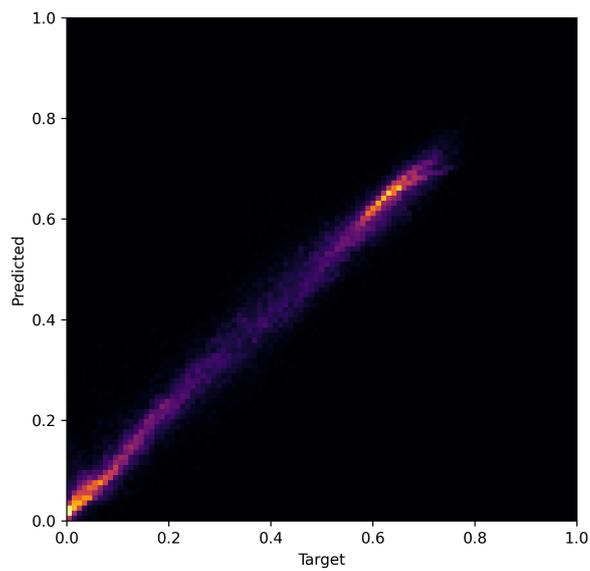
### 2.2 Series resistance



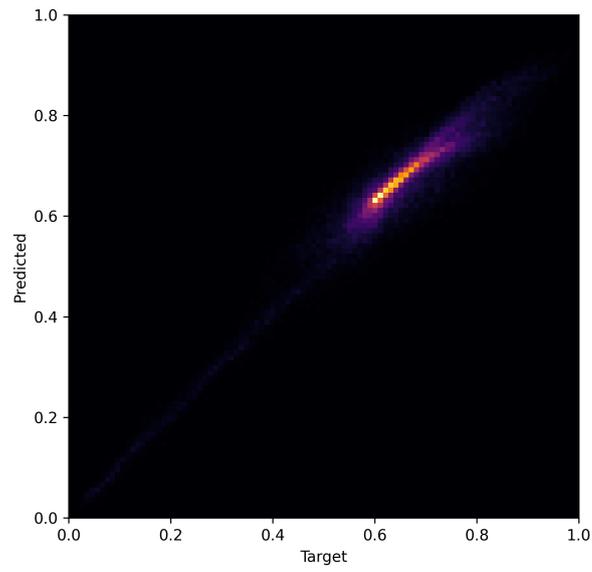
### 2.3 Fill factor



### 2.4 Power conversion efficiency (PCE)



## 2.5 $V_{oc}$



## 2.6 $J_{sc}$

