**LIST OF ABBREVIATIONS**

Voc open circuit voltage

Isc short circuit current

Vmp maximum power point voltage

Imp maximum power point current

A voltage temperature coefficient

B current temperature coefficient

NOCT nominal operating cell temperature

G irradiance

FFT fast Fourier transformation

MPPT maximum power point tracker

PLL phase lock loop

THD total harmonic distortion

PV photovoltaic

FF fill factor

Pm maximum power

Ga  ambient irradiation

Vt thermal voltage

Imax maximum current

Vmax maximum voltage

Iph photo current

ID  diode current

Rs series resistance

Rsh shunt resistance