

## NOMENCLATURE

Symbol	Description	Units
A	Surface Area Of cell	m <sup>2</sup>
c	Speed / Velocity	m/s
G	Irradiance	W <sup>2</sup> /m
I	Electric Current	A
I <sub>sc</sub>	Short-Circuit Current	A
I <sub>l</sub>	Light Generated Current	A
I <sub>m</sub>	Current at maximum power	A
I <sub>o</sub>	Dark Saturation Current	A
m	Non Ideality Factor	
v	Wave Frequency	Hz
E	Wave Energy	J or eV
E <sub>c</sub>	Energy at bottom of Conduction band	J or eV
E <sub>v</sub>	Energy at top of valance band	J or eV
E <sub>g</sub>	Energy band gap	J or eV
Φ	Work Function	eV
h	Planck's constant	Js
λ	Wavelength of Light	m
H	Efficiency	%
p	Momentum	eV/c
P <sub>mpp</sub>	Power produced by the cell at maximum power Point.	W
P <sub>s</sub>	Power produced by the shaded module	W
A <sub>sys</sub>	Nominal Area of PV module	cm <sup>2</sup>
A <sub>shade</sub>	Shaded Area of PV Module	cm <sup>2</sup>
R <sub>s</sub>	Series Resistance	Ω
R <sub>sh</sub>	Shunt Resistance	Ω
T	Temperature	°C
V	Voltage	V
V <sub>oc</sub>	Open Circuit Voltage	V

$V_m$	Voltage at maximum power point	V
$\eta$	Cell Efficiency	%
$W_p$	Power Peak	Watt

**Abbreviations:**

AIT	Auto Ignition Temperature
BPD	Bypass Diode
CO <sub>2</sub>	Carbon Di Oxide
CS <sub>2</sub>	Carbon Disulphide
DC	Direct Current
HSE	Health Safety Environment
MIT	Minimum Ignition Temperature
MSDS	Material Safety Datasheet
SIF	Shade Impact Factor
PV	Photo Voltaic
IR	Infra-Red
TC	Thermocouple