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NOMENCLATURE

I, V	Output current and voltage
I_{ph}	Light current
I_{sc}	Short-circuit current
V_{oc}	Open-circuit voltage
S	Irradiance
C_T	Temperature coefficient
T	Temperature
T_{ref}	Reference temperature
α	Shading ratio
I_D	Diode current
I_{d0}	Reverse saturation current
q	Electron charge
n	Diode emission coefficient
k	Boltzmann constant
E_g	Band gap energy
R_s, R_{sh}	Series resistance, Parallel resistance
n_s	Number of serial units
n_p	Number of parallel units
β	Safety margin constraint