



How Much Charge Current Increase Will Your Customer See?

- ❖ Typical charge current increase \Rightarrow 10% - 25%
 - May be 30% or more under ideal conditions
 - Defaults to conventional PWM control if extra power not available
- ❖ Actual increase varies with operating conditions...
 - Cooler PV array produces greater *potential* power ($V_{mp} \uparrow$)
 - Lower battery voltage increases charge current since output is *constant power* ($V_{bat} \downarrow$)
- ❖ Other factors affecting current boost
 - Wire size and resistance
 - PV panel design (V_{mp} rating)

