

## 11. Technical Data:

Model	MPK40	MPK60	MPK80
<b>Input</b>			
Maximum PV open circuit voltage	150V (at the lowest temperature) 138V (at a standard temperature of 25°)		
Minimum PV voltage	20V/40V/60V/80V		
Rated Charge Current	30A	40A	50A 60A 80A 100A
<b>Output</b>			
System voltage	12V/24V/36V/48V Auto		
Rated Discharge Current	20A	30A	40A
Own consumption	≤35mA(48V)		
MPPT highest accuracy	99%		
Maximum charging efficiency	97%		
Charging control mode	Multi-stage(MPPT, Absorption, Float, Equalization, CV)		
Float charge	13. 8V/27. 6V/41. 4V/55. 2V		
Absorption charge	14. 4V/28. 8V/43. 2V/57. 6V		
Equalization charge	14. 6V/29.2V/43. 8V/58.4V		
Load disconnection(LVD)	10. 8V/21. 6V/32. 4V/43. 2V		
Load reconnection(LVR)	12. 6V/25. 2V/37. 8V/50. 4V		
Load control mode	Normal, light control, light and timing control, timing control, reverse light control		
Light control point voltage	5V/10V/15V/20V		
Battery Type	GEL, SLD, FLD and USR(default), Lithium batteries customization 3series 3.7V, 4 series 3.7V, 4series 3.2V, 5series 3.2V		
<b>Other</b>			
Human interface	Color LCD with backlight, 3 buttons		
Cooling mode	AL alloy heat sink and cooling fan		
Wiring	High current copper terminals ≤25 mm <sup>2</sup> (3AWG)		
Temperature probe	10K, line length 3 meters		
Communication mode	RS485, RJ45 port		
Working temperature range	-20~+55° C		
Storage temperature range	-30~+80° C		
Humidity	10%~90% No condensation		
Size	222*200*85mm	268*220*95mm	340*240*108mm
Net Weight	2500g	3500g	4700g

### ※Remarks:

Please operate at the ambient temperature allowed by the controller. If the ambient temperature exceeds the allowable range of the controller, please derate it.

\*36V is not automatically recognized and can be set as a fixed system voltage;

\*\* There is no equalizing charging method for colloidal batteries.