



LAC SOLAR

Series MPK2

MPPT



Open circuit voltage	<150V
System voltage	12V/24V/36V/48V
Rated Charge Current	30A-100A

Function introduction



MPPT



Protections



Parameters adjustable



LCD Color display



Button mode



Forced air cooling



RS485/RJ45 port



Temperature compensation



Mounting hole Size



MPK2-40

Rated Voltage	Rated Charge Current	Product size
12V/24V/36V/48V Auto	30A/40A	248×190×94 mm



Mounting hole Size



MPK2-60

Rated Voltage	Rated Charge Current	Product size
12V/24V/36V/48V Auto	50A/60A	278×210×99 mm



Mounting hole Size



MPK2-80

Rated Voltage	Rated Charge Current	Product size
12V/24V/36V/48V Auto	80A/100A	352×230×112 mm

Model	MPK2-40	MPK2-60	MPK2-80	MPK2-100			
Input							
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	
PV maximum input power	12V	390W	520W	650W	780W	1040W	1300W
	24V	780W	1040W	1300W	1560W	2080W	2600W
	36V	1170W	1560W	1950W	2340W	3120W	3900W
	48V	1560W	2080W	2600W	3120W	4160W	5200W
Output							
System voltage	12V/24V/36V/48V/Auto						
Rated Discharge Current	20A	30A	40A	50A			
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 USER(default),Lithium batteries customization 3series 3.7V,4 series 3.7V,4series 3.2V,5series 3.2V						
Other							
Human interface	Color LCD with backlight, 3 buttons						
Cooling mode	AL alloy heat sink and cooling fan						
Wiring	High current copper terminal≤25 mm ² (3AWG)						
Temperature probe	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						
Note: Please operate at the ambient temperature allowed by the controller. If the ambient temperature exceeds the allowable range of the controller, please derate it							



MPK2-40

Specification	30A-40A
Set/Carton	8PCS
Weight/Carton	22Kg
Measurement	640 x 515 x 305mm
Volume/Carton	0.1CBM



MPK2-60

Specification	50A-60A
Set/Carton	4PCS
Weight/Carton	15.8Kg
Measurement	550 x 350 x 345mm
Volume/Carton	0.07CBM



MPK2-80

Specification	80A-100A
Set/Carton	4PCS
Weight/Carton	22Kg
Measurement	590 x 425 x 365mm
Volume/Carton	0.09CBM

