



**KAPLAN
POWER**

KPM Series

MPPT Solar Charge Controller





KPM Series MPPT Controller

Introduction

This is a max power point tracking function with high efficiency MPPT charge controller. It has many advantages such as self cooling, system voltage auto recognition, wide range of PV input, charge for all kinds of batteries, automatic discharge control, RS 485 / LAN communication function and so on. It is the most high-end product in solar market.

Features

MPPT control

Memory function

12V/24V/48V battery system automatic recognition

Charge mode: fast charge ,constant charge ,floating charge

Most information could be provide by LCD and LED

RS485and LAN communication port

computer software show work status and set parameters of the discharge system



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Specification Parameters

Product item		KPM-48H80	KPM-48H100	KPM-48H120
MPPT efficiency		≥ 99.5%		
Standby power consumption		4W~5W		
Heat-Dissipating method		Natural cooling		Natural cooling+Aircooling
System voltage		12V/24V/36V/48V Auto		
Max.PV input voltage(Voc)*		60Vdc~150Vdc		
Start-up charging voltage		Real-time battery voltage +3V		
Low input voltage protection		Real-time battery voltage +2V		
Over voltage protection / Recovery		150Vdc		
Reted PV Power**	12V	1040W	1300W	1560W
	24V	2080W	2600W	3120W
	36V	3120W	3900W	4680W
	48V	4160W	5200W	6240W
	96V	—	—	—
Rated charge current		80A	100A	120A
Temperature compensation		-3mV/°C /2V		
Charge method		3 stages: CC (Constant current) - CV (Constant voltage) - CF (Floating charge)		
Output voltage stability accuracy		≤ ±0.2V		
Load voltage		Same as battery voltage		
Rated load current		80A	100A	120A
Load control mode		On/Off , PV voltage control mode, Dual-time control mode, PV + Time control mode		
Low voltage protection		10.5V (default), 11V (restored), settable(9V-15V), lithium ion(9V-60V)		
Setting method		PC software / APP / Controller		
Display		HD LCD backlight display		
Communication		"Dual RJ45 port / RS485 / support PC software monitoring / support WiFi module for APP cloud monitoring / support centralized parallel monitoring"		
Protections		"Input & output over-volt / low-voltage protection, reverse polarity protection, over-heating protection, battery shedding protection etc."		
Operating ambient temperature		-20°C ~+55°C		
Storage temperature		-40°C ~+70°C		
IP(Ingress protection)		IP31		
Altitude		0~3000m		
Max. Witing size		50m m²		
N.weight /G.weight		7.4 / 9 (KG)		7.4 / 9 (KG)
Product size /Packing size (mm)		420x280x110 / 510x368x225		420x280x110 / 510x368x225

*The voltage of the PV array cannot exceed this limit.

**These power limits refer to the maximum power that the MPPT controller can handle. High power arrays can be used without damaging the controller.