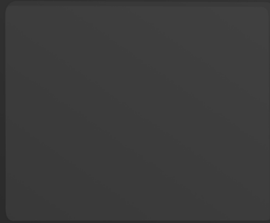




ipanda  
SOLAR ENERGY



PV

BAT  
up

DC  
down

S

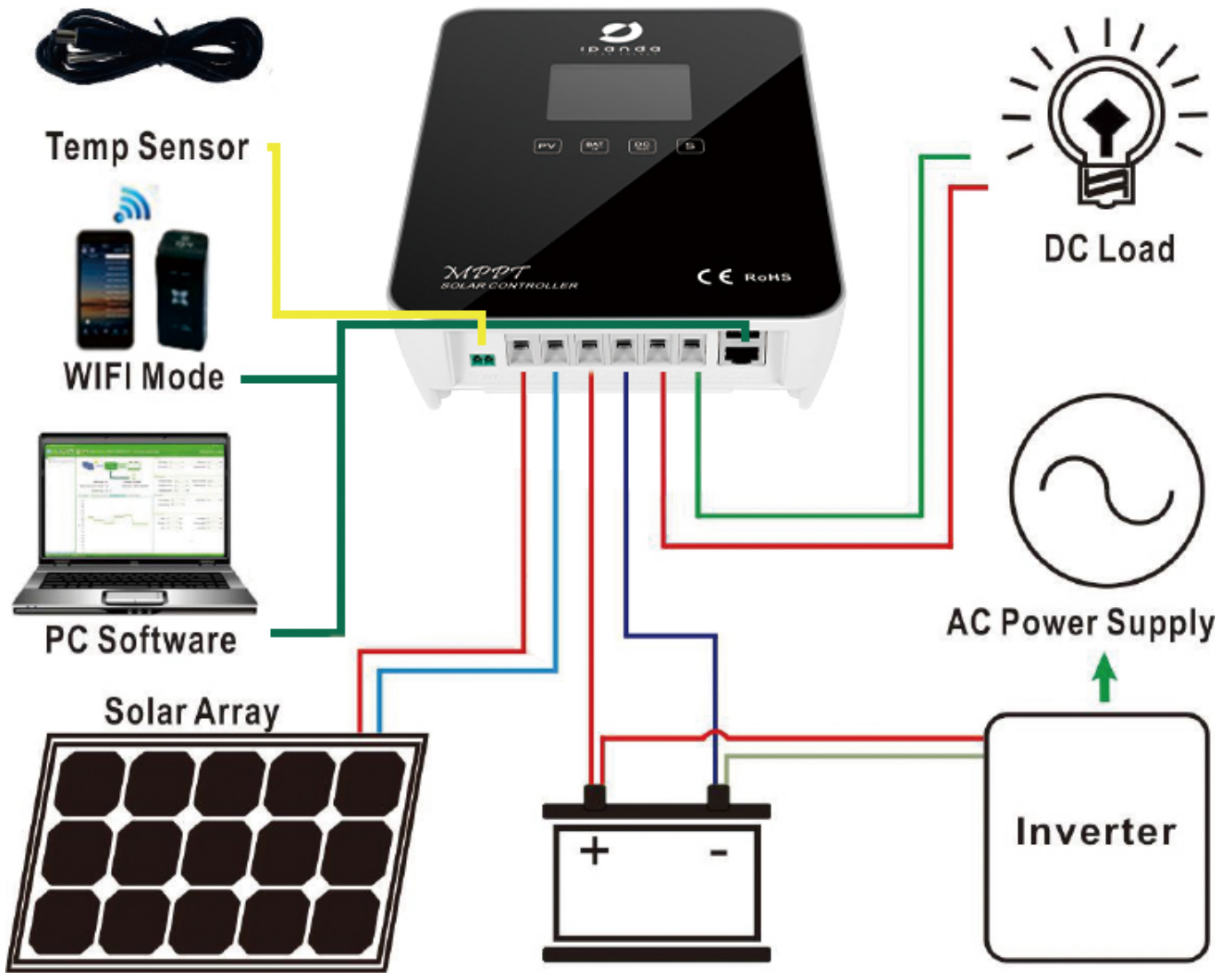
*MPPT*  
SOLAR CONTROLLER

CE RoHS



### Characteristics

1. Efficient MPPT algorithm, MPPT efficiency  $\geq 99.5\%$
2. Integrated design, stable performance and high reliability
3. With current limiting charging function
4. IP67 level protection, natural cooling
5. Touch button, high-definition color display
6. Intelligent interactive experience
7. Dual RS485 communication interface, support for parallel communication
8. Battery type selection: sealed lead acid battery / flooded battery / gel battery, other battery types (such as lithium battery) can be customized
9. Four LOAD control modes: normally open / normally off mode, light control mode, dual time controller mode, light control + fixed time control mode
10. Support PC software / WiFi module cloud APP monitoring
11. CE, FCC, RoHS certification



# Explorer-N Series

Explorer-N Series		EN2420	EN2430	EN2440	EN2450	EN2460
Product Category	MPPT Efficiency	≥99.5%				
	Standby Power	0.8W-1.5W				
	Heat-dissipation	Natural-cooling				
	Battery System	12V System	9VDC - 15VDC (Lead-acid)			
Voltage Range	24V System	18VDC - 30VDC (Lead-acid)				
	Lithium-ion	18VDC - 30VDC (Default), ≤30VDC(Optional activation function)				
PV Input Characteristics	Max. PV Input (Voc)	DC100V				
	Min. Vmpp Voltage	Battery Voltage +2V				
	Start-up Charge Voltage	Battery Voltage +3V				
	Low Input Volt Protection	Battery Voltage +2V				
	Over Voltage Protection/Recovery	100VDC /95VDC (Default)				
	PV Rated Power	12V System	260W	390W	520W	650W
24V System		520W	780W	1040W	1300W	1560W
Lithium-ion		252W-504W	378W-756W	504W-1008W	630W-1260W	756W-1512W
Charge Characteristics	Activation for Lithium Battery	Standard				
	Battery Types	GEL(Default), Sealed(SEL), Flooded(FLD), Lithium(Lit), User-defined(USE)				
	Rated Charge Current	20A	30A	40A	50A	60A
	Charge Method	3 stages: CC (Constant Current), CV (Constant Voltage), CF (Floating Charge)				
LOAD Characteristics	Load Voltage	Same as battery voltage				
	Rated Load Current	20A	30A	20A	30A	20A
	Load Control Mode	On, Off, PV control, Dual time control, PV+Time control				
Display & Communication	Display	High definition LCD segment backlight				
	Communication	Dual RJ45 interace/RS485/ upper computer software/WIFI module & Bluetooth module phone APP/centralized monitoring				
Others	Protections	Input over/low voltage, output over/low voltage, reverse connection, over temperature, short circuit, battery shedding etc.				
	Ingress Protection	IP43				
	Operation /Storage Temperature	-20℃ - +50℃				
	Max. Wiring Size	Ø 28mm <sup>2</sup>				
	Recommended Breaker	≥40A	≥63A	≥63A	≥100A	≥100A
	N.Weight /G.Weight	1.7/2.03			2.4/2.83	
Product /Packing Size (MM)	220x148x58.8/289x212x105			245x170x68.5/334x255x123		