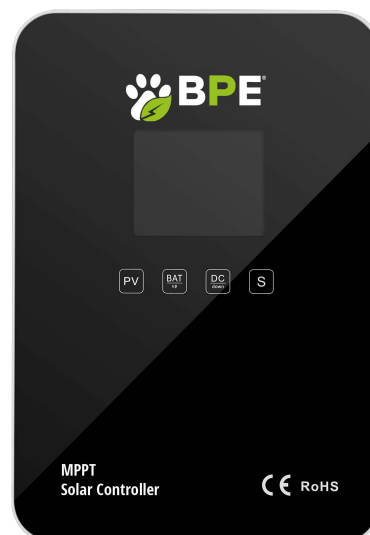


The BPE MPPT Charge Controller maximises your off-grid solar PV production whilst optimising the charging of your batteries

Main Benefits

- » Maximum Point Per Tracking with $\geq 99.5\%$ efficiency
- » HD LCD colour display screen
- » Suitable 12V/24V lead acid battery system
- » Suitable for Lithium-Ion and Lead Acid battery systems
- » Natural cooling and IP67 rated
- » Online monitoring available with dedicated iOS/Android based Apps
- » Input Voltage up to 100V
- » Sizes range from 20A to 60A



BPE MPPT Charge Controller Specification

Common Positive Types		BPE Adventurer-20	BPE Adventurer-30	BPE Adventurer-40	BPE Adventurer-50	BPE Adventurer-60
Product Category	Controller Properties	MPPT (Maximum Power Point Tracking)				
	MPPT Efficiency	$\geq 99.5\%$				
	Standby Power	0.5W ~ 1.2W				
	Heat-Dissipating Method	Natural Cooling				
	Lead Acid Battery	12V System: 9VDC~15VDC 24V System: 18VDC~30VDC				
	Lithium-Ion Battery System	8VDC~30VDC				
PV Input Characteristics	Maximum Input Voltage	100VDC				
	Minimum MPPT Voltage	System Battery Voltage +2V				
	Starting Charging Voltage	System Battery Voltage +3V				
	Input Low Voltage Protection	System Battery Voltage +2V				
	Input Overvoltage Protection	100VDC/95VDC				
	12V Lead Acid Battery System	260W	390W	520W	650W	780W
	24V Lead Acid Battery System	520W	780W	1040W	1300W	1560W
	Settable Lithium-Ion Battery System	252W~504W	378W~756W	504W~1008W	630W~1260W	756W~1512W
Charging Characteristics	Lithium Battery Activation Function	Optional				
	Battery Type	Sealed Lead Acid Battery (SEL), Gel Sealed Lead Acid Battery (GEL), Flooded Lead Acid Battery (FLD), User Defined (USE), Lithium-ion Battery (LIT)				
	Rated Maximum Charging Current	20A	30A	40A	50A	60A
	Charge Method	Stage 3: CC (Quick Charging) - CV (Constant Voltage Charging) - FC (Floating Charge)				
LOAD Characteristics	Load Voltage	Same as Battery Voltage				
	Load Rated Current	20A		30A		
	Load Control Mode	Normally On/Off Mode, Light Control Mode, Double Time Control Mode, Light Control Delay Mode				
	Load Low Voltage Protection	10.5V (Low Voltage Protection), 11V (Low Voltage Protection Recovery), Adjustable				
Display and Communication	Display	HD LCD Colour Display				
	Communication	Dual RJ45 Interface, RS485, Wi-Fi Module with Mobile Phone App for Online Monitoring				
Other Parameters	Defensive Function	Input-Output Over/Under Voltage Protection, Reverse Polarity Protection, Battery Shedding Protection				
	Operating Ambient Temperature	-20°C ~ +50°C				
	IP Protection Level	IP67				
	Max. Cable Size	28mm ²				
	Recommended Battery Side Circuit Breaker	$\geq 40A$	$\geq 53A$	$\geq 63A$	$\geq 100A$	$\geq 100A$
	Net Weight (Kg)	1.65/1.98		2.35/2.78		
Product Size (mm)	220x148x58.8/289x212x105			245x170x68.5/334x255x123v		



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