



**RED POLE**  
ENERGY



## 12V Industrial Charger

AC 230 VAC



IP65  
Waterproof



PFC $\geq$ 0.98



Overvoltage  
Protection



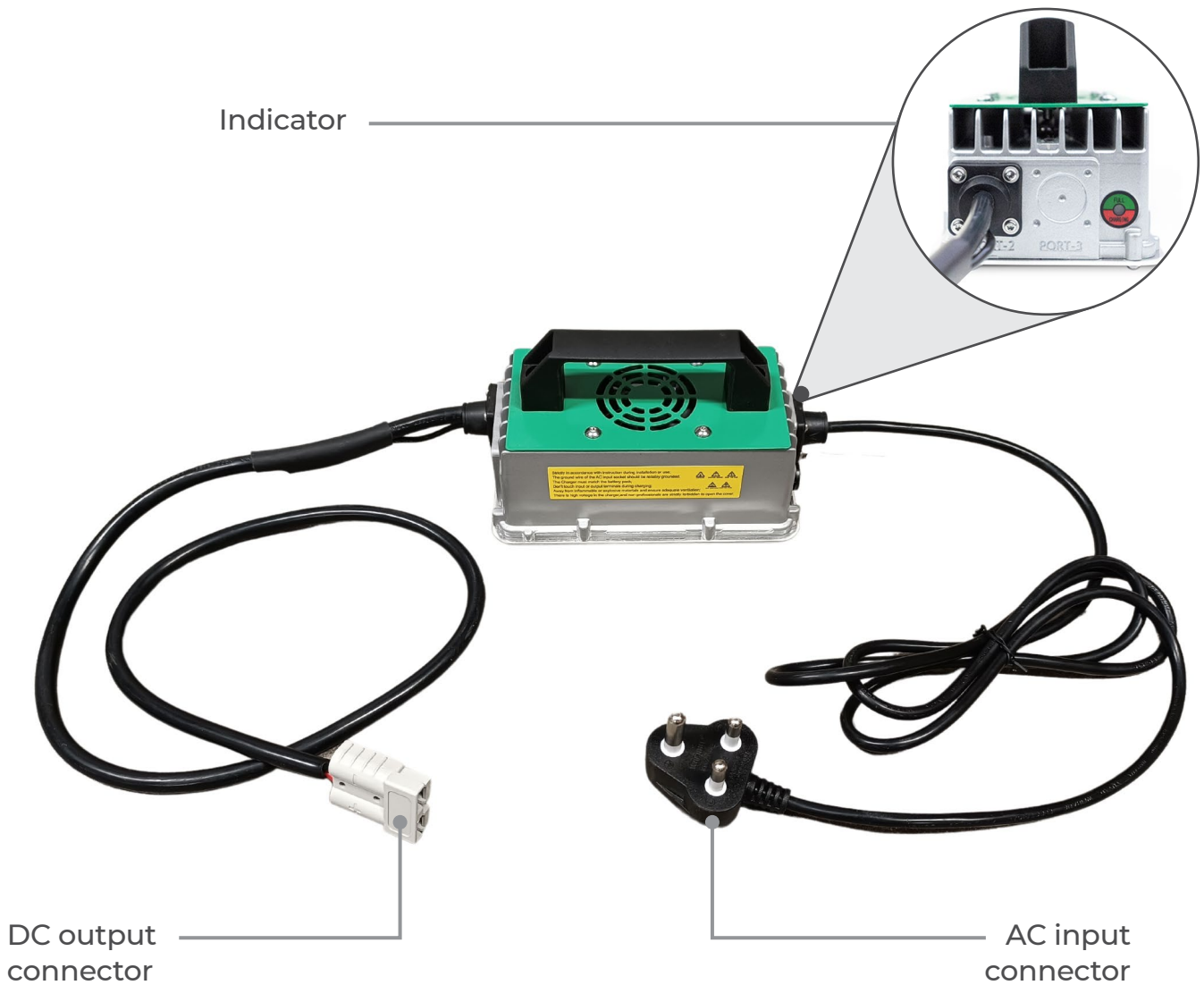
Over Temperature  
Protection



Short Circuit  
Protection

# 1. Product Overview

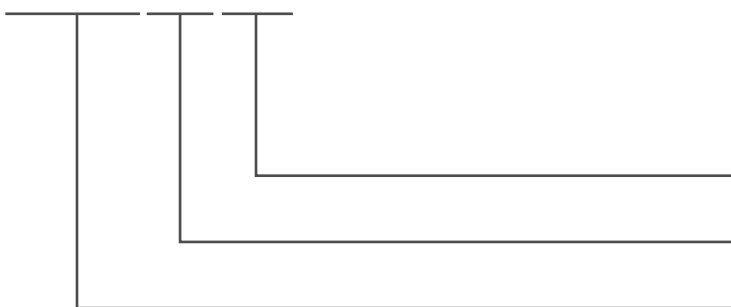
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# 2. Model Encoding

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**P W C 1 2 2 0**



**20:** Max. Output Current 20A

**12:** Charger Series (Voltage)

**PWC:** Portable Waterproof Charger

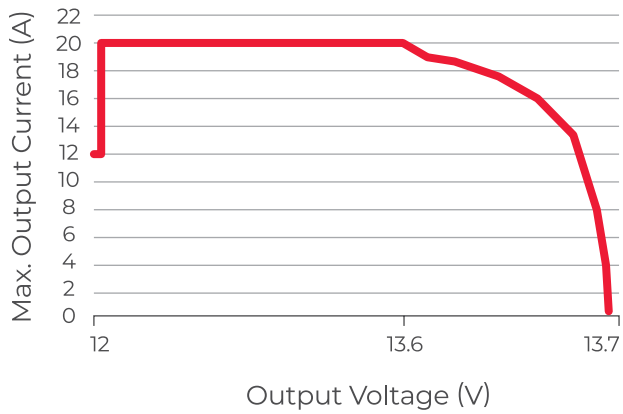
### 3. Technical Specification

Battery type		Lead acid/Lithium Battery
Model number		RP-PWC1220
Input	Voltage range	90 ~ 264VAC
	Frequency range	45 ~ 65Hz
	Input current(Typ.)	4A
	Power factor(Typ.)	≥0.99 (Tested when the power is above half power)
	Max. efficiency(Typ.)	93%
Output	Charging phase	Pre-charge + constant current + constant voltage
	Max. output power	274W
	Max. output voltage	13.7 VDC
	Max. output current	20A
	Constant voltage	13.7 VDC (LiFePO4 in 4 Series)
	Max. current ripple	500mAp-p
	Static power	<2W
Protection	Short circuit	Yes
	Over temperature	Yes
Function	Indicator light	Yes
Environment	Cooling	Fan cooling
	Waterproof	IP65
	Working temp.	-30 ~ 65°C
	Working humidity	10% ~ 90% RH non-condensing
	Storage temp., humidity	-40 ~ 80°C, 10% ~ 90% RH non-condensing
	Vibration resistant	10 ~ 500HZ, 2G 10 minutes/cycle, X, Y, Z axis each 60 minutes
Safety & EMC	Safety standards	EN60335, GB/T4706
	Withstand voltage	I/P-O/P: 2KVAC I/P-FG: 2KVAC O/P-FG: 2KVAC
	Isolation resistance	I/P-O/P, I/P-FG, O/P-FG: 100M ohms / 500VDC / 25°C / 70%RH
	EMC emission	EN55022 Class A, GB/T 9254 Class A
	EMC immunity	EN 55024:2010, GB/T17618
Indicator State	Charging	Red light flicker
	Full	Green light is glowing
	Empty Load	Green and red lights will alternate flashing
Others	MTBF	>100K hours
	Weight	1.2 kg
	Dimensions	187 x 123 x 68 mm

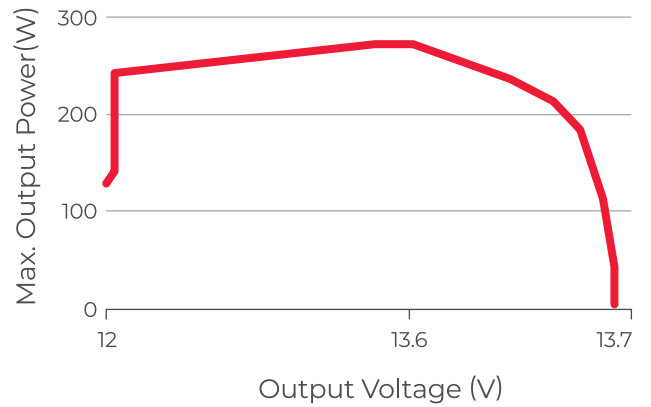
## 4. Charging Curve

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### Max. Output Current

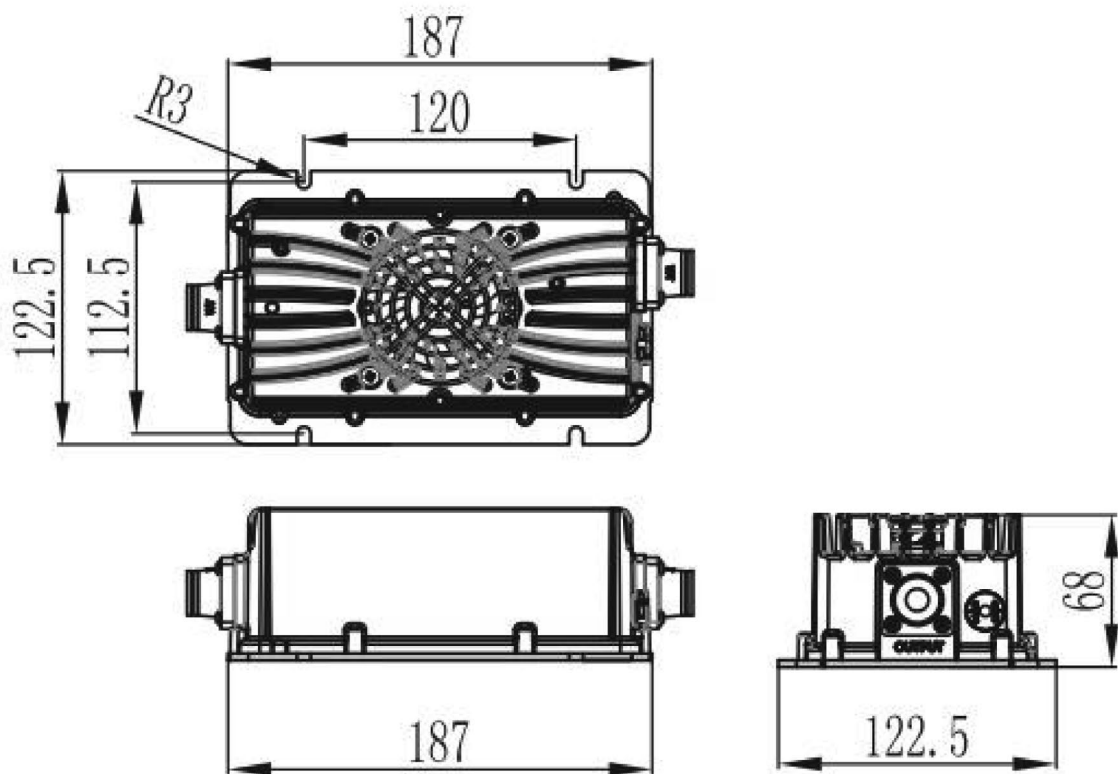


### Max. Output Power



## 5. Product Dimensions

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