

e-Motive Battery Charger

World Class, International Standard



OVP



OCP



SCP



OTP



MCU



84W



OVP



OCP



SCP



OTP



MCU



Avant+



Avant



Senior

- Universal range & single range AC input
- Comply with CB, CE, FCC safety regulation
- Applied with MCU
- The optional digital communication function per customer request

Application :

- Rental Bike
- Road Bike
- Mountain Bike
- Cargo Bike
- [Medical Aid Scooter](#)

Feature	Model	Avant+	Avant	Senior
Power Rated		84W	84W	84W
Input Voltage		100 - 240V	100 - 240V	100 - 240V
Input Frequency		47 ~ 63Hz	47 ~ 63Hz	47 ~ 63Hz
Battery Voltage		36V	36V	24V
Constant Current		2A	2A	3.5A
Efficiency		> 90%	> 87%	> 85%
Power Factor		N/A	> 0.95	N/A
Protection Level		IPX5 (Optional)	IPX5 (Optional)	IPX1
Operating Temperature (°C)		0 ~ +40	0 ~ +40	0 ~ +40
Storage Temperature (°C)		-40 ~ +85	-40 ~ +85	-25 ~ +70
Operation Humidity		20 ~ 90%	20 ~ 90%	20 ~ 90%
Cooling Method		Convection	Convection	Convection
Communication Options		CAN bus	CAN bus	N/A
LED		Red / Green	Red / Green	Blue / Green
Dimension (LxWxH mm)		100 x 65 x 40	152 x 73 x 37	152 x 79 x 45
Weight (kg)		0.55	0.65	0.7
Safety		IEC 60335-1 IEC 60335-2-29	IEC 60335-1 IEC 60335-2-29	IEC 60335-1 IEC 60335-2-29

*Connector types to battery end can be optional or customized by request.

168W



OVP



OCP



SCP



OTP



MCU



Core

- ▶ Universal range & single range AC input
- ▶ Comply with CB, CE, FCC safety regulation
- ▶ Applied with MCU
- ▶ The optional digital communication function per customer request

Application : ▶ Rental Bike ▶ Road Bike ▶ Mountain Bike ▶ Cargo Bike

Feature	Model	Core	ECO-Core
Power Rated		168W	168W
Input Voltage		100 - 240V	220 - 240V
Input Frequency		47 ~ 63Hz	47 ~ 63Hz
Battery Voltage		36V	36V
Constant Current		4A	4A
Efficiency		> 88%	> 88%
Power Factor		> 0.95	> 0.95
Protection Level		IPX5 (Optional)	IPX5 (Optional)
Operating Temperature (°C)		0 ~ +40	0 ~ +40
Storage Temperature (°C)		-40 ~ +85	-40 ~ +85
Operation Humidity		5 ~ 90%	5 ~ 90%
Cooling Method		Convection	Convection
Communication Options		CAN bus (Optional)	CAN bus (Optional)
LED		Red / Green	Red / Green
Dimension (LxWxH mm)		180 x 85 x 45	180 x 85 x 45
Weight (kg)		0.9	0.9
Safety		IEC 60335-1	IEC 60335-1
		IEC 60335-2-29	IEC 60335-2-29

*Connector types to battery end can be optional or customized by request.



Mountain Bike



Rental Bike



Road Bike



Cargo Bike



Medical Aid Scooter

Phihong was founded in 1972, grown to a global public company in 2011 and has been a Top 10 leading power supply companies in the world.

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