



Korea 180



Intelligent design for charging AGM, GEL, Flooded lead acid batteries and various Lithium batteries, and widely used for electric wheelchairs, mobilities, scooters, e-bikes, medical equipments, etc.. Korea 180 charger meets the ISO 7176-21:2009 standard. AC/DC cable is completely customizable.

Main applications:



High Reliability

Engineered using design for reliability. Validated for long service life in harsh operating conditions. Tested to perform reliably and durably in automotive applications. Manufactured in a world class facility specializing in high reliability solutions.



Premium charging Quality

Charge profiles to precisely charge AGM, GEL, Flooded and Li-ion batteries. Developed in PowerFirst's battery lab to balance charge time, battery life and application requirements.



Can be used globally

Charger takes universal inputs. (90-264 Vac, 47-63 Hz) Customization and global certificates are optional and available.



Global + Efficient

Capable of operating reliably on any single-phase grid worldwide. High-efficiency performance for electricity savings and shorter charge times. Active cooling enables optimal peak performance.

Korea 180 Charger Specifications

DC Output	24 VDC
Maximum DC output voltage	33.6 V
Maximum DC output current	6 A
Maximum DC output power	180 W
Deep discharge recovery (minimum voltage)	10 V
Maximum C3 interlock current	2 A
Battery type	Lead acid (wet / AGM / gel), lithium
Reverse polarity	Electronic protection with auto-reset
Short circuit	Electronic current limit

AC Input	
Nominal AC input voltage	100-240 VAC $\pm 10\%$
Nominal AC input frequency	50 / 60 Hz
Maximum AC input current	2 A
Nominal AC input current	1.8 A @ 120 VAC 0.85 A @ 230 VAC
Power factor	>0.99 @ 120 VAC >0.98 @ 230 VAC

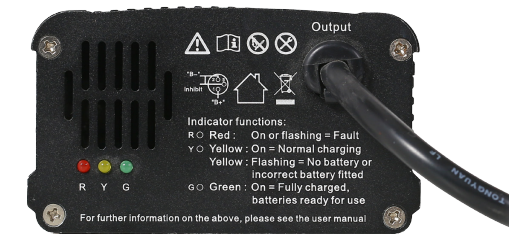
Regulatory	
Efficiency	88% at full load, 120 VAC, 24 VDC 92% at full load, 230 VAC, 24 VDC California Energy Commission (CEC) compliant
Safety (LVD)	IEC 60335-1:2010; IEC 60335-1:2010/AMD1:2013 IEC 60335-1:2010/AMD2:2016; IEC 60335-2-29:2016 IEC 60335-2-29:2016/AMD1:2019 BS EN 60335-2-29:2004 + A11:2018 BS EN 60335-1:2012 + A11:2014 + A2:2019
Emissions (EMC)	EN IEC 55014-1:2021; EN IEC 61000-3-2:2019+A1:2021 BS EN 55014-1:2017+A11:2020; BS EN IEC 61000-3-2:2019
Immunity (EMC)	EN IEC 55014-2:2021; EN 61000-3-3:2013+A2:2021 BS EN 55014-2:2015; BS EN 61000-3-3:2013+A1:2019

Mechanical	
Dimensions	L168 x W95.2 x H55 mm
Weight	1 kg
AC input connector	IEC320 / C14 (requires country-specific cord)
DC output connector	Customizable
Inhibit function	ON / DC
Cooling	Active cooling with fan (Variable speed)

Environmental	
Enclosure	IP21
Operating temperature	-20°C to +45°C Derated at $>45^{\circ}\text{C}$
Storage temperature	-40°C to +60°C

Visit epowerfirst.com/product/Korea-family/ to view the complete product datasheet.

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Highlighted Features:

- User friendly LED indicators for AC source, battery status, charging, error.
- Auto-recharge for low voltage in maintenance mode
- OEM customizable & field replaceable AC/DC cabling
- With ISO 7176-21:2009 certificate

