



PDV 450



Intelligent design for charging AGM, GEL, Flooded and Lithium batteries, the PDV 450 Charger is available in on- and off-board configurations. Optional CAN bus communication ensures seamless machine integration and AC/DC cabling is completely customizable.

Main applications:



- High frequency system with advanced technology
- Charging process fully controlled by microprocessor.
- Possibility to change the charging curve by button, choosing from 16 standard pre-programmed curves for AGM, GEL, WET, Lithium batteries.
- Charging process starting in the "soft start" mode and automatic reset upon connection of a new battery. Equipped with NC (Normally closed) relay for safety interlock connections (available only for on-board installation)
- Alphanumeric signals of possible anomalies.
- Protection with an output relay against polarity inversions, short circuits, over-voltages or anomalies.
- dV/dT adaptive charging profile available under request for Wet lead-acid traction batteries.
- Compensation of the voltage drop on the connecting cables to the battery.
- Normally closed auxiliary contact of connected AC input line.
- Self-extinguishing case made of ABS with double insulation
- Customized remote LED indicator available per request
- Support both ON-BOARD and OFF BOARD use.
- Thermal protection against over heating.
- With forced ventilation fans

PDV 450
Charger Specifications

Table with 4 columns: DC Output, 24 VDC, 36 VDC, 48 VDC. Rows include Maximum DC output voltage, Maximum DC output current, Maximum DC output power, Deep discharge recovery, Maximum C3 interlock current, Battery type, Reverse polarity, and Short circuit.

Table with 2 columns: AC Input and values. Rows include AC input voltage range, Nominal AC input voltage, Nominal AC input frequency, Maximum AC input current, Nominal AC input current, and Power factor.

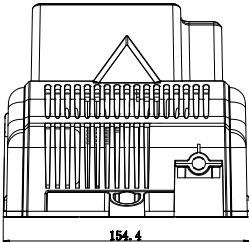
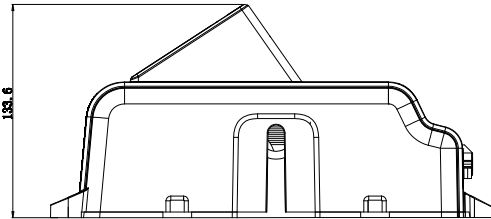
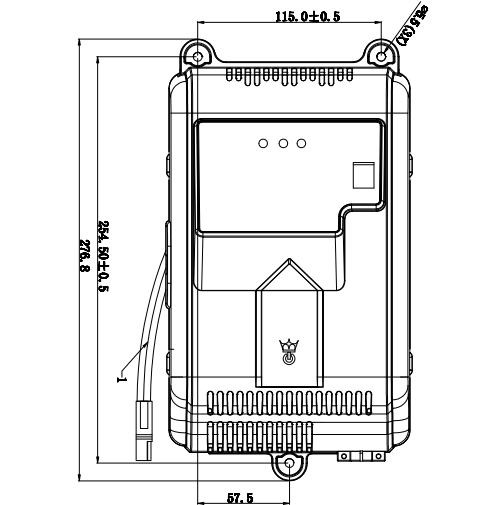
Table with 2 columns: Regulatory and values. Rows include Efficiency, Safety (LVD), Emissions (EMC), and Immunity (EMC).

Table with 2 columns: Mechanical and values. Rows include Dimensions, Weight, AC input connector, DC output connector, Mounting holes, and Cooling.

Table with 2 columns: Environmental and values. Rows include Enclosure, Mechanical shock & vibration, Corrosion & humidity, Thermal fatigue, Operating temperature, and Storage temperature.



- Optional CAN bus, RS485, IFC, Wi-Fi, Bluetooth communication for machine integration or lithiumBMS.
- User friendly LED indicators for AC source, battery status, charging, error.
- Field programmable with up to 16 charging profiles
- Auto-recharge for low voltage in maintenance mode
- OEM customizable & field replaceable AC/DC cabling



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