

THE KID C1D2

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SOLAR INC.

MIDNITE MPPT CHARGE CONTROLLERS

The most versatile and feature rich charge controller on the market is now also the largest Class 1 Div 2 certified MPPT Charge controller!

Midnite Solar has done it again with yet another industry first! Our popular medium sized charge controller, The KID, has its Class 1 Div 2 certification. This means that the C1D2 KID has been designed to safely operate in environments where flammable gases or vapors exist and have the potential to rise to ignitable concentrations. Couple this with UL 1741 and the UL458 marine supplement, The KID is safe for operation in potentially explosive environments. It also meets very strict vibration, environment and thermal requirements.

PRODUCT FEATURES

- Class 1 Div 2 certified
- Additional heatsink and vented back plate to assist with cooling
- MPPT Tracking
- True paralleling - Inputs and Outputs for two KIDs
- Up to 150V input
- Auto Gen-Start
- MidNite's exclusive HyperVOC extends the input voltage beyond 150VOC for cold climates
- 12v, 24V, 36V, 48V battery output
- Lighting Controller: dusk+hours, daylight and night-light settings
- Up to 30 amps battery output
- No fan
- Reverse polarity protected
- Front panel exchangeable fuses for battery, input and load/clipper
- 3 LED bar graph for battery status at a glance
- Keypad for access to extensive menu items and set points
- Conformal coated for harsh environments
- THE KID IS CERTIFIED TO UL1741, UL458 (MARINE SUPPLEMENT) & CSA
With the UL458 marine supplement, the KID meets very strict vibration, environment, and thermal requirements
- Built in Arlington, WA USA

The KID'S HyperVOC feature allows up to 162VOC. (The KID will not be harmed by voltages between 150 and 162VDC (this is the HyperVOC range). However the KID will remain in standby until the voltage is 150VDC or below.)



Made in the USA!



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PRODUCT SPECIFICATIONS

Operating Input Voltage	150VDC
Nominal Battery Voltage	12V through 48V
Maximum Output Current	30A
Auto Gen-Start	YES
Class 1 Div 2 Certified	YES
PV Open Circuit Voltage V _{OC}	150VDC + HyperVOC (162V _{OC})
HyperVOC (See page bottom)	Extended V _{OC} range for cold climates
Charging Regulation	Bulk, Absorb, Float as well as Equalization
Battery Voltage Range	9V to 64V
Equalization Charging	Adjustable Voltage and Duration
Battery Temp Compensation	Automatic when BTS is installed, Adjustable mV per
Programmable Auxiliary Control Output	1 -VO communication port
Whizbang Jr. Communication Port	YES
Status Display	LCD plus status LEDs
Networking Cabling	Standard 4 conductor phone cable, no hub needed
Communications	RS232 openly published protocols and USB
Load Terminal	30A configurable as battery load or wind clipper
Solar	Standard
Wind&Hydro	NO (standard on the WIND KID MPPT Charge Controller)
Operating Temperature	Min. of -40C to SOC - Controller will auto derate as temperature rises above 25C
Environmental Rating	Indoor IP52 type 1, Conformal coated for harsh environments
Conduit knock Outs	2
Warranty	5 Year
Lighting Controller	Highly customizable via keypad (dusk+hours, daylight and night-light)
Weight	6 Lbs.
Dimensions	9 1/4" L x 5" H x 3 5/16" W (235CM x 12.7CM x 8.4CM)
Shipping Dimensions	12" L x 8" H x 6" W (30.48CM x 20.32CM x 15.24CM)
Options	3ft. network cable, external load, boat mount bracket
Certifications	CE D2, ETL for US & Canada, CE Certified, FCC Class B, CSA C22.#107.1
True Paralleling	Inputs and Outputs between 2 units with smart active current sharing
Battery Types	Flooded, AGM, Gel, Calcium SMF, Lithium BMS, Custom
UL1741 & UL458 (Marine Supplement)	With the UL458 marine supplement, THE KID meets very strict vibration, environment, and thermal requirements

HyperVOC: A non-operative V_{OC} safety zone over and above the maximum input voltage for cold climates.