

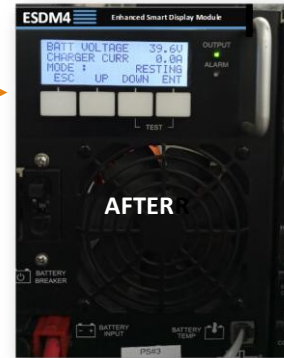
UPGRADE XM2 POWER SUPPLIES TO THE NEXT GENERATION UPS SYSTEM



BEFORE



ESDM4



AFTER

Trivision Enhanced Smart Display Module ESDM4 features an advanced built-in intelligence with Upgraded control panel and Larger 4-line LCD Display that provides a new look and Life to the existing XM2 series Power Supplies including the next generation applications support. ESDM4 has been designed to optimize the operation of existing models of XM2 power supplies.

HIGHLIGHT



- Daylight Readable Larger Display
- 36V LiFePO4 Battery Pack Support (New Addition)
- 36V Super Capacitor Power Pack Support (New Addition)
- Individual Battery Voltage display for each individual string Through Trivision Status Monitor
- No More Dip Switches setting for Input and Output Voltages Configuration, Just Scroll, Select, and Enter to save
- Overall Power and Battery System status display on the home screen

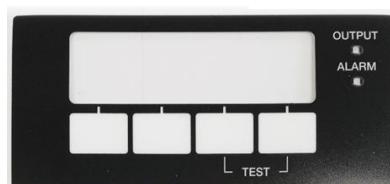
AVAILABLE AS

- Completely Upgraded and Tested Inverter Module
- ESDM KIT (Upgrade Yourself)

ESDM4 Kit

ESDM4 Enhanced Smart Display Module

ESDM Label



Keypad



ESDM Module

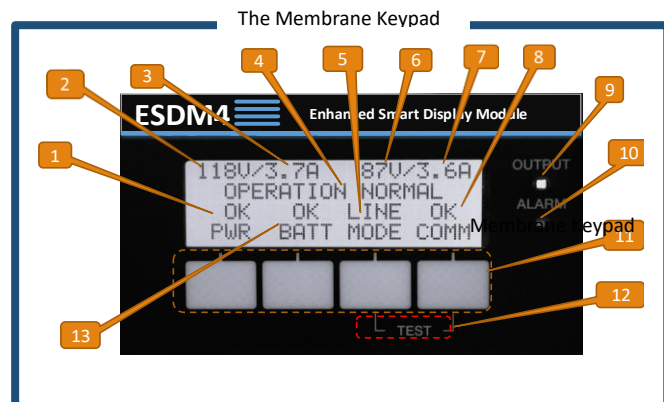
FEATURES

- Quick Conversion of Existing XM2 Power Supplies to an Upgraded Next Generation UPS System
- 4Line x 20 Character Larger LCD Display with improved contrast and white Backlight for better day time visibility.
- Operator can view and manage the Entire Operational Parameters through Smart Display using the soft touch Keypad.
- Direct Information of the Input and Output Voltages/Currents on the home screen.
- Simple and Easier Setup “No more dip switches for Input and Output Voltage Configuration”
- The most advanced features to ensure seamless operation with significant reduction in operational and maintenance cost.
- Programmable Multi Stage Charging/ Discharging Management for SLA and Next Generation 36V Lithium Iron Phosphate Battery System.
- User friendly soft touch keypad
- Consolidated Home Screen Display for overall operational status of all important key parameters.
- Major and Minor Alarm Indication through LCD Display and the front panel LEDs.
- Works with Alpha™ Transponder Models (**DM3X/DSM33X, DSM3X, DSM3, IDH2, IDH3, Electroline EECM3 -DHTX-N, DHTD-N**)
- Direct Display of Individual Battery Voltage when paired with the suitable transponder models.



THE HOME SCREEN and KEYPAD

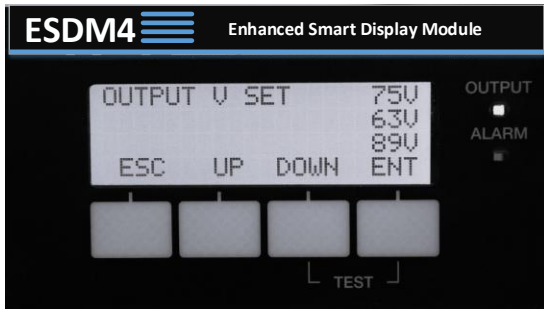
- 1- Overall Power System Status
- 2- Input Voltage
- 3- Input Current
- 4- Overall Operation Status
- 5- Mode of Operation Line/Standby
- 6- Output Voltage
- 7- Output Current
- 8- Communication Status
- 9- Output Status Indicator
- 10- Alarm Indicator
- 11- Soft Keypad
- 12- Self Test ON/OFF Keys
- 13- Overall Battery System Status



Description	Function (Starting from “Operation Normal” Status Screen)
PWR (Power)	Pressing once the key under “OK PWR” prompt, will display the power related menus, power configuration menu.
BATT (Battery)	Pressing once the key under BATT prompt, displays the Battery related information ,configuration menu.
MODE	The Mode prompt at home screen displays the mode of operation
COMM (Communication)	When Installed with the Alpha Transponders DM3 and DSM3 series communication Status and the information will be displayed using the key under this prompt.

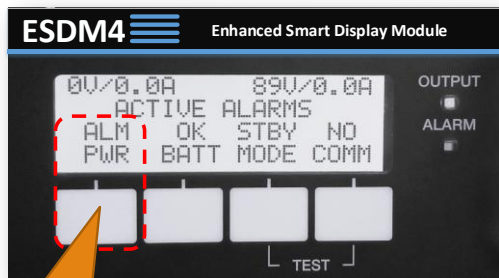
NO MORE DIP SWITCHES *CONFIGURATION*

“JUST SCROLL, SELECT and ENTER TO SAVE”



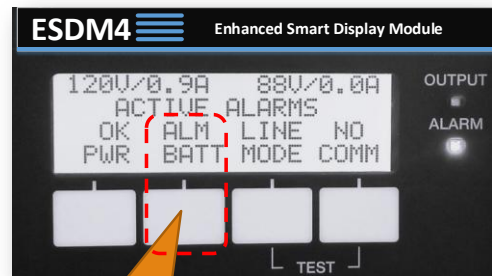
DIRECT DISPLAY OF POWER AND BATTERY RELATED ALARM

POWER RELATED MAJOR AND MINOR ALARMS



Press the Key for Power Alarm Details

BATTERY RELATED MAJOR AND MINOR ALARMS



Press the Key for Battery Alarm Details

Specifications

Description	Specifications
LCD Display	4 Line 20 Character White backlight Display
Output Frequency Stability (Inverter Mode)	60Hz / 50Hz , $\pm 0.05\%$
Line to Standby Transfer Characteristics	Uninterrupted Output
Battery Voltage (DC)	36V
Battery Capacity	Configurable 10 - 1000 AH)
Standby Mode	82-85%
Supported Battery Types.	Sealed Lead Acid Lithium Iron Phosphate LifePO4
Configurable Battery Types	SLA: 12V, 6V Cells LiFePO4: 36V Battery Pack
Temperature Compensation	5mV/Cell/°C)
Charging Current (Programmable)	10 A at 80% Load and Nominal Input (Bulk Charge Mode)
Description	Specifications
Charging Stages (Lead Acid Batteries)	Three Stage Temperature Compensated Charging ,Bulk, Accept, Float
Charging Parameters, Bulk, Accept. Float (Volts Per Cell)	Programmable
Bulk Charge : Constant Current Charge (36V Battery System)	The Maximum Charging Current for Bulk Charge is 10 Amp and the Charging Stage Switchover to the Accept Mode when Battery System Voltage Reaches 13.62 V per battery or 40.86V for 36V System.
Accept Charge (36V Battery System) Temperature Compensated ,Constant Voltage Charge (Adjustable)	14.4 Volts per battery or 43.2 Volts per System
Float Charge (36V Battery System) Temperature Compensated, Pulsed Voltage Charge (Adjustable) to Maintain Battery Voltage at No Load.	13.62 Volts Per Battery or 40.86V for 36 Volt System.
Maximum Battery Voltage for 36V System	14.5V per battery or 43.5V DC for 36V System
Minimum Battery Voltage level for 36V System to Automatically Disable the Inverter Function	10.5V per battery or 31.5 V DC for 36V System
Temperature Compensation	During Accept and Float Charge, the battery charging is temperature compensated at 0.03V Per Battery Per °C and should be adjustable for different types of batteries.

Description	Specifications
Charging Stages: (LifePO4) Batteries	Two Stage Temperature Compensated Charging Bulk, Accept
Charging Parameters, Bulk, Accept. Float (Volts Per Cell)	Programmable
Bulk Charge : Constant Current Charge (36V Battery System)	The Maximum Charging Current for Bulk Charge is 10 Amp and the Charging stage Switchover to the Accept Mode when Battery System Voltage Reaches 13.62 V per battery or 40.86V for 36V System.
Accept Charge (36V Battery System) Temperature Compensated ,Constant Voltage Charge (Adjustable)	14.4 Volts per battery or 42.2 Volts per System
Maximum Battery Voltage for 36V System	43.0V DC for 36V System
EOD Minimum Battery Voltage level for 36V System to Automatically Disable the Inverter Function	31.5 V DC for 36V Battery System
Temperature Compensation	During Accept and Float Charge, the battery charging is temperature compensated at 0.03V Per Battery Per °C and should be adjustable for different types of batteries.

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