



# ELECTRIC VEHICLE CHARGING STATION

## WHY CHOOSE ELECTRIC?

- ZERO EMISSIONS
- COST-EFFICIENT
- ECO-FRIENDLY
- PERFORMANCE

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## PRODUCT OVERVIEW

- LATTEYS EV CHARGING STATIONS ARE DESIGNED TO PROVIDE A SEAMLESS AND RELIABLE CHARGING EXPERIENCE,
- COMBINING ADVANCED TECHNOLOGY WITH USER-FOCUSED DESIGN TO SUPPORT THE GROWING DEMAND FOR ELECTRIC VEHICLE INFRASTRUCTURE. HERE ARE THE KEY FEATURES, PURPOSE, AND UNIQUE ASPECTS

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## LATTEYS EV CHARGING STATIONS AIM TO

- – FACILITATE THE TRANSITION TO ELECTRIC MOBILITY BY PROVIDING ACCESSIBLE, FAST, AND RELIABLE CHARGING SOLUTIONS.
- – PROMOTE SUSTAINABILITY BY REDUCING RELIANCE ON FOSSIL FUELS AND LOWERING CARBON EMISSIONS THROUGH AN EFFICIENT EV INFRASTRUCTURE.
- – ENHANCE THE EV OWNERSHIP EXPERIENCE BY ADDRESSING COMMON CHARGING CHALLENGES AND ENSURING CONVENIENCE.



## KEY FEATURES

- 1. FAST CHARGING TECHNOLOGY
- 2. USER-FRIENDLY INTERFACE
- 3. SMART ENERGY MANAGEMENT
- 4. COMPATIBILITY
- 5. DURABLE BUILD
- 6. SAFETY AND SECURITY
- 7. SCALABLE SOLUTIONS

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## TECHNICAL SPECIFICATIONS

- POWER OUTPUT FOR LATTEYS EV CHARGING STATIONS, THE CHARGING POWER TYPICALLY RANGES FROM 7KW FOR SLOWER, HOME-BASED OR SMALL-SCALE CHARGERS, UP TO 22KW FOR MEDIUM-SPEED CHARGING, AND UP TO 50KW OR HIGHER FOR FAST-CHARGING STATIONS DESIGNED FOR RAPID EV RECHARGES. THE SPECIFIC POWER OUTPUT DETERMINES THE CHARGING SPEED, WHERE HIGHER KW VALUES SIGNIFICANTLY REDUCE THE TIME REQUIRED TO CHARGE AN ELECTRIC VEHICLE.

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- CONNECTOR TYPES  
LATTEYS EV CHARGING STATIONS LIKELY SUPPORT MULTIPLE CONNECTOR TYPES TO ACCOMMODATE VARIOUS EV MODELS. COMMON CONNECTOR TYPES IN THE EV CHARGING INDUSTRY INCLUDE:

- 1. TYPE 2 (MENNEKES)
- 2. COMBINED CHARGING SYSTEM (CCS) COMBO 2
- 3. CHADEMO
- 4. GB/T



- INPUT VOLTAGE AND CURRENT  
FOR LATTEYS EV CHARGING STATIONS, HERE ARE TYPICAL INPUT VOLTAGE AND CURRENT REQUIREMENTS BASED ON CHARGING POWER:

- 1. 7 KW CHARGER
  - INPUT VOLTAGE: 230V AC (SINGLE-PHASE)
  - INPUT CURRENT: ~32A
- 2. 22 KW CHARGER
  - INPUT VOLTAGE: 400V AC (THREE-PHASE)
  - INPUT CURRENT: ~32A PER PHASE
- 3. 50 KW CHARGER
  - INPUT VOLTAGE: 400V AC (THREE-PHASE)
  - INPUT CURRENT: ~80A PER PHASE

## UNIQUENESS

- FOCUS ON ENERGY EFFICIENCY
- MODULAR DESIGN FOR SCALABILITY
- DATA-DRIVEN INSIGHTS
- LOCAL MANUFACTURING AND SUPPORT

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## APPLICATIONS:

- SUITABLE FOR RESIDENTIAL, COMMERCIAL, PUBLIC, OR PRIVATE USE.

## SAFETY FEATURES:

- HERE ARE SOME SAFETY FEATURES TO CONSIDER FOR LATTEYS EV CHARGING STATIONS:
- 1. OVERLOAD PROTECTION
- 2. OVERVOLTAGE AND UNDERVOLTAGE PROTECTION
- 3. GROUND FAULT PROTECTION
- 4. SHORT CIRCUIT PROTECTION
- 5. AUTOMATIC SHUT-OFF AND RESTART
- 6. OVERHEAT PROTECTION
- 7. WEATHERPROOF AND WATERPROOF DESIGN (IP RATINGS)
- 8. CHILD LOCK PROTECTION
- 9. SURGE PROTECTION
- 10. REAL-TIME MONITORING AND ALERTS
- 11. EMERGENCY STOP BUTTON

## FEATURES AND BENEFITS

- 1. SMART CONNECTIVITY
- 2. REMOTE MONITORING
- 3. DYNAMIC POWER MANAGEMENT
- 4. SMART SCHEDULING
- 5. OVER-THE-AIR (OTA) UPDATES
- 6. USAGE ANALYTICS
- 7. APP-BASED ACCESS & PAYMENTS
- 8. ENHANCED SECURITY

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## USER INTERFACE:

THE USER INTERFACE (UI) FOR LATTEYS EV CHARGING STATIONS SHOULD BE DESIGNED WITH SIMPLICITY, EFFICIENCY, AND EASE OF USE IN MIND, WHILE ENSURING THAT IT PROVIDES ALL NECESSARY FUNCTIONALITY. BELOW ARE KEY ELEMENTS THAT SHOULD BE INCLUDED IN THE UI DESIGN FOR LATTEYS EV CHARGING STATIONS:

1. WELCOME SCREEN
2. CHARGING SESSION INFORMATION
3. PAYMENT OPTIONS
4. CHARGING HISTORY
5. SAFETY INFORMATION
6. INTERACTIVE MAP
7. NOTIFICATIONS
8. USER PROFILE AND SETTINGS
9. TECHNICAL SUPPORT
10. ACCESSIBILITY FEATURES

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## ENERGY EFFICIENCY:

WHEN HIGHLIGHTING THE ENERGY EFFICIENCY OF LATTEYS EV CHARGING STATIONS, IT'S USEFUL TO CONSIDER ASPECTS THAT WILL APPEAL TO ENVIRONMENTALLY CONSCIOUS USERS AND BUSINESSES LOOKING FOR COST SAVINGS. HERE ARE SOME KEY POINTS YOU COULD FEATURE:

1. SMART ENERGY MANAGEMENT
2. LOAD BALANCING AND OFF-PEAK CHARGING
3. HIGH-EFFICIENCY CHARGERS (7KW, 22KW, 50KW OPTIONS)
4. ENERGY MONITORING AND REPORTING
5. ECO-FRIENDLY DESIGN AND MATERIALS

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## 4. INSTALLATION AND MAINTENANCE

### INSTALLATION REQUIREMENTS:

HERE ARE SOME GENERAL INSTALLATION REQUIREMENTS FOR LATTEYS EV CHARGING STATIONS, THOUGH IT'S IMPORTANT TO VERIFY WITH THE SPECIFIC MODEL AND REGION FOR LOCAL CODES AND REGULATIONS:

1. LOCATION REQUIREMENTS
2. ELECTRICAL POWER SUPPLY
3. CABLING AND WIRING
4. CHARGER MOUNTING
5. NETWORKING AND COMMUNICATION
6. COMPLIANCE WITH LOCAL REGULATIONS
7. ENVIRONMENTAL CONSIDERATIONS
8. PROFESSIONAL INSTALLATION

EACH LATTEYS EV CHARGING STATION MODEL MAY HAVE SPECIFIC REQUIREMENTS, SO ALWAYS REFER TO THE INSTALLATION MANUAL PROVIDED BY THE MANUFACTURER FOR DETAILED INSTRUCTIONS.

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