



# DT SERIES UPS

EVADA (Xiamen) Technology Co., Ltd.

# ABOUT EVADA

爱维达

EVADA

EVADA (Xiamen) Technology Co., Ltd. was founded in 1998, for over two decades, the company has been focusing on power conversion and smart energy fields, offering solutions for data center, digital power, energy storage and photovoltaic power. EVADA is a high-tech enterprise that achieves the TOP 5 brands of China UPS and data center, and currently being present in 48+ countries. As part of the general push for the transformation of energy decarbonization, EVADA stays ahead in the field and trying to promote “green” development of energy.



**TOP 5**

UPS brands in China



**25+**

Years' experience in power conversion and smart energy field



**32**

Branches nationwide and counting



**3**

R&D centers



**25,000+**

Square meters workplace



**20+**

Industry standards drafting



**100+**

Researchers



**30+**

Invention patents



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## DT SERIES UPS

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# XMI-D SERIES

## Power Range

1kVA-120kVA

## Overview

XMI-D Series UPS completely eliminates the impact of grid disturbances, surges, sags, and noise interference, providing a green and reliable power supply protection for loads with outstanding quality, exceptional performance, and user-friendly operation.

## Applications

Thermal power plant, hydroelectric power plant, wind farm, nuclear power plant, waste-to-energy plant, transmission and distribution substation, and transformer station, etc.



## Features

### Flexible

- 19" rack for easy setup and flexible screen configuration
- Supports hot standby and N+X parallel redundancy
- Optional monitoring protocols compatible with power device monitoring
- Simple usage without strict control sequences
- LCD displays system parameters and status
- Supports dry contacts, RS232, RS485, SNMP cards

### Stable and Reliable

- Dual power input design
- Isolation transformer for input/output and AC/DC isolation
- Unique airflow design prevents dust buildup on components
- Static bypass enables seamless inversion and bypass switching
- Dual conversion with zero switch time
- Wide input voltage range
- Automated self-testing
- Multiple protection: overload, mains overvoltage/undervoltage, short circuit, battery overvoltage/undervoltage, and overtemperature, etc.



Host 1kVA-3kVA



Host 5kVA-20kVA



Cabinet 10kVA-60kVA



Cabinet 80kVA-120kVA

# Specification(Host)

| Model                                    | XMI10D(R/P)                                                                                                                                                       | XMI20D(R/P) | XMI30D(R/P) | XMI50D(R/P)                     | XMI75D(R/P)                                                | XMI80D(R/P)                      | XMI110D(R/P)                     |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|---------------------------------|------------------------------------------------------------|----------------------------------|----------------------------------|
| Capacity                                 | 1kVA                                                                                                                                                              | 2kVA        | 3kVA        | 5kVA                            | 7.5kVA                                                     | 8kVA                             | 10kVA                            |
| <b>Input</b>                             |                                                                                                                                                                   |             |             |                                 |                                                            |                                  |                                  |
| Rated Voltage                            | 220VAC                                                                                                                                                            |             |             |                                 |                                                            |                                  |                                  |
| Voltage Range                            | (165 ~ 275)VAC (Line voltage)                                                                                                                                     |             |             |                                 |                                                            |                                  |                                  |
| Frequency Range                          | (50 ± 5%)Hz                                                                                                                                                       |             |             |                                 |                                                            |                                  |                                  |
| Rated DC Voltage                         | 110/220VDC                                                                                                                                                        |             |             |                                 |                                                            |                                  |                                  |
| <b>Output</b>                            |                                                                                                                                                                   |             |             |                                 |                                                            |                                  |                                  |
| Rated Voltage                            | Single phase 220VAC                                                                                                                                               |             |             |                                 |                                                            |                                  |                                  |
| Voltage Accuracy                         | (220 ± 1%)VAC                                                                                                                                                     |             |             |                                 |                                                            |                                  |                                  |
| Frequency                                | Battery: (50 ± 0.5%)Hz                                                                                                                                            |             |             |                                 |                                                            |                                  |                                  |
| Power Factor                             | 0.8                                                                                                                                                               |             |             |                                 |                                                            |                                  |                                  |
| THDi                                     | <3% (100% Linear load), <5% (100% non-linear load)                                                                                                                |             |             |                                 |                                                            |                                  |                                  |
| Overload                                 | 105% ~ 125%, lasts 10min then switch to the bypass; 125 ~ 150%, lasts 1min then switch to the bypass; >150%, switch to the bypass immediately                     |             |             |                                 |                                                            |                                  |                                  |
| Switching Time                           | 0ms                                                                                                                                                               |             |             |                                 |                                                            |                                  |                                  |
| Current Sharing Imbalance                | ≤5%                                                                                                                                                               |             |             |                                 |                                                            |                                  |                                  |
| <b>Protection</b>                        |                                                                                                                                                                   |             |             |                                 |                                                            |                                  |                                  |
| Overload                                 | Switch to bypass power then automatically switch to mains power when load decreases                                                                               |             |             |                                 |                                                            |                                  |                                  |
| Overtemperature                          | > 85°C, switch to bypass power                                                                                                                                    |             |             |                                 |                                                            |                                  |                                  |
| Short Circuit                            | Inverter shutdown, protection alert                                                                                                                               |             |             |                                 |                                                            |                                  |                                  |
| Malfunction                              | Switch to bypass mode triggers an alarm                                                                                                                           |             |             |                                 |                                                            |                                  |                                  |
| Undervoltage                             | Auto shutdown on DC undervoltage                                                                                                                                  |             |             |                                 |                                                            |                                  |                                  |
| <b>Display</b>                           |                                                                                                                                                                   |             |             |                                 |                                                            |                                  |                                  |
| LED                                      | Mains, inverter, bypass, DC undervoltage, overload, fault                                                                                                         |             |             |                                 |                                                            |                                  |                                  |
| LCD                                      | AC input/output voltage; AC input/output frequency; DC input voltage; load percentage; apparent power; active power; output current; UPS operational status, etc. |             |             |                                 |                                                            |                                  |                                  |
| <b>System</b>                            |                                                                                                                                                                   |             |             |                                 |                                                            |                                  |                                  |
| Alarm                                    | Mains power under/over-voltage, DC under/over-voltage, output overload, UPS abnormalities, etc.                                                                   |             |             |                                 |                                                            |                                  |                                  |
| Communication                            | RS232/RS485, dry contact, optional: SNMP                                                                                                                          |             |             |                                 |                                                            |                                  |                                  |
| <b>Environment</b>                       |                                                                                                                                                                   |             |             |                                 |                                                            |                                  |                                  |
| Operating Temperature                    | (-5 ~ 40)°C                                                                                                                                                       |             |             |                                 |                                                            |                                  |                                  |
| Humidity                                 | 0~95%(Non-condensing)                                                                                                                                             |             |             |                                 |                                                            |                                  |                                  |
| Noise                                    | <55dB @ 1m                                                                                                                                                        |             |             |                                 |                                                            |                                  |                                  |
| <b>Physical</b>                          |                                                                                                                                                                   |             |             |                                 |                                                            |                                  |                                  |
| Size W*D*H(mm)<br>(built-in transformer) | 422 x 461 x 176 (4U)                                                                                                                                              |             |             | 422 x 419<br>x 352 (8U)         | 482.6 x 440<br>x 442(10U)                                  | 440 x 470 x 712 (16U)            |                                  |
| Size W*D*H(mm)<br>(external transformer) | /                                                                                                                                                                 |             |             | 440 x 440<br>x 264 (6U)         | 440 x 440 x 264 (6U DC220V)<br>440 x 440 x 311 (7U DC110V) |                                  |                                  |
| Weight                                   | 39/43.5(Built-in)                                                                                                                                                 |             |             | 82/84(Built-in)<br>22(External) | 105(Built-in)<br>28/30(External)                           | 142(Built-in)<br>28/30(External) | 145(Built-in)<br>28/30(External) |

\* Specifications subject to change without notice.

# Specification(Host)



| Model                                    | XMI3105D(R/P)                                                                                                                                                        | XMI31075D(R/P)                                             | XMI3108D(R/P)                     | XMI3110D(R/P)                    | XMI3115D(R/P)                 | XMI3120D(R/P)           |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------|----------------------------------|-------------------------------|-------------------------|
| Capacity                                 | 5kVA                                                                                                                                                                 | 7.5kVA                                                     | 8kVA                              | 10kVA                            | 15kVA                         | 20kVA                   |
| <b>Input</b>                             |                                                                                                                                                                      |                                                            |                                   |                                  |                               |                         |
| Rated Voltage                            | 380VAC                                                                                                                                                               |                                                            |                                   |                                  |                               |                         |
| Voltage Range                            | (285 ~ 475)VAC (Line voltage)                                                                                                                                        |                                                            |                                   |                                  |                               |                         |
| Frequency Range                          | (50 ± 5%)Hz                                                                                                                                                          |                                                            |                                   |                                  |                               |                         |
| Rated DC Voltage                         | 110/220VDC                                                                                                                                                           |                                                            |                                   |                                  | 220VDC                        |                         |
| <b>Output</b>                            |                                                                                                                                                                      |                                                            |                                   |                                  |                               |                         |
| Rated Voltage                            | Single phase 220VAC                                                                                                                                                  |                                                            |                                   |                                  |                               |                         |
| Voltage Accuracy                         | (220 ± 1%)VAC                                                                                                                                                        |                                                            |                                   |                                  |                               |                         |
| Frequency                                | Battery: (50 ± 0.5%)Hz                                                                                                                                               |                                                            |                                   |                                  |                               |                         |
| Power Factor                             | 0.8                                                                                                                                                                  |                                                            |                                   |                                  |                               |                         |
| THDi                                     | <3% (100% Linear load), <5% (100% non-linear load)                                                                                                                   |                                                            |                                   |                                  |                               |                         |
| Overload                                 | 105% ~ 125%, lasts 10min then switch to the bypass; 125 ~ 150%, lasts 1min then switch to the bypass;<br>>150%, switch to the bypass immediately                     |                                                            |                                   |                                  |                               |                         |
| Switching Time                           | 0ms                                                                                                                                                                  |                                                            |                                   |                                  |                               |                         |
| Current Sharing Imbalance                | ≤5%                                                                                                                                                                  |                                                            |                                   |                                  |                               |                         |
| <b>Protection</b>                        |                                                                                                                                                                      |                                                            |                                   |                                  |                               |                         |
| Overload                                 | Switch to bypass power then automatically switch to mains power when load decreases                                                                                  |                                                            |                                   |                                  |                               |                         |
| Overtemperature                          | > 85°C, switch to bypass power                                                                                                                                       |                                                            |                                   |                                  |                               |                         |
| Short Circuit                            | Inverter shutdown, protection alert                                                                                                                                  |                                                            |                                   |                                  |                               |                         |
| Malfunction                              | Switch to bypass mode triggers an alarm                                                                                                                              |                                                            |                                   |                                  |                               |                         |
| Undervoltage                             | Auto shutdown on DC undervoltage                                                                                                                                     |                                                            |                                   |                                  |                               |                         |
| <b>Display</b>                           |                                                                                                                                                                      |                                                            |                                   |                                  |                               |                         |
| LED                                      | Mains, inverter, bypass, DC undervoltage, overload, fault                                                                                                            |                                                            |                                   |                                  |                               |                         |
| LCD                                      | AC input/output voltage; AC input/output frequency; DC input voltage; load percentage; apparent power;<br>active power; output current; UPS operational status, etc. |                                                            |                                   |                                  |                               |                         |
| <b>System</b>                            |                                                                                                                                                                      |                                                            |                                   |                                  |                               |                         |
| Alarm                                    | Mains power under/over-voltage, DC under/over-voltage, output overload, UPS abnormalities, etc.                                                                      |                                                            |                                   |                                  |                               |                         |
| Communication                            | RS232/RS485, dry contact, optional: SNMP                                                                                                                             |                                                            |                                   |                                  |                               |                         |
| <b>Environment</b>                       |                                                                                                                                                                      |                                                            |                                   |                                  |                               |                         |
| Operating Temperature                    | (-5 ~ 40)°C                                                                                                                                                          |                                                            |                                   |                                  |                               |                         |
| Humidity                                 | 0~95%(Non-condensing)                                                                                                                                                |                                                            |                                   |                                  |                               |                         |
| Noise                                    | <55dB @ 1m                                                                                                                                                           |                                                            |                                   |                                  |                               |                         |
| <b>Physical</b>                          |                                                                                                                                                                      |                                                            |                                   |                                  |                               |                         |
| Size W*D*H(mm)<br>(built-in transformer) | /                                                                                                                                                                    | 440 x 470 x 712 (16U)                                      |                                   |                                  |                               | /                       |
| Size W*D*H(mm)<br>(external transformer) | 440 x 440<br>x 264 (6U)                                                                                                                                              | 440 x 440 x 264 (6U DC220V)<br>440 x 440 x 311 (7U DC110V) |                                   |                                  | 440 x 440<br>x 264 (6U)       | 440 x 440<br>x 355 (8U) |
| Weight                                   | 22(External)                                                                                                                                                         | 115(Built-in)<br>28/30(External)                           | 161(Built-in)<br>28/30 (External) | 161(Built-in)<br>28/30(External) | 195(Built-in)<br>28(External) | 35(External)            |

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# Specification(Host)

| Capacity                                    | 10kVA                                                                                | 20kVA                                                   | 30kVA | 40kVA | 50kVA | 60kVA | 80kVA             | 100kVA | 120kVA |
|---------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------|-------|-------|-------|-------|-------------------|--------|--------|
| <b>Input</b>                                |                                                                                      |                                                         |       |       |       |       |                   |        |        |
| Rated Voltage                               | 380/400/415/480Vac                                                                   |                                                         |       |       |       |       |                   |        |        |
| Voltage Range                               | ±25%                                                                                 |                                                         |       |       |       |       |                   |        |        |
| Frequency Range                             | 50/60Hz±10%                                                                          |                                                         |       |       |       |       |                   |        |        |
| Rated DC Voltage                            | 110/220Vdc                                                                           |                                                         |       |       |       |       |                   |        |        |
| <b>Output</b>                               |                                                                                      |                                                         |       |       |       |       |                   |        |        |
| Rated Voltage                               | 220/230/240/277Vac                                                                   |                                                         |       |       |       |       |                   |        |        |
| Voltage Accuracy                            | ±1%                                                                                  |                                                         |       |       |       |       |                   |        |        |
| Frequency                                   | 50/60Hz                                                                              |                                                         |       |       |       |       |                   |        |        |
| Power Factor                                | 0.8                                                                                  |                                                         |       |       |       |       |                   |        |        |
| THDi                                        | <2% (100% linear load), <3% (100% non-linear load)                                   |                                                         |       |       |       |       |                   |        |        |
| Overload                                    | <110%; 125%, 10mins; 150%, 1 min; 200%, 10 sec                                       |                                                         |       |       |       |       |                   |        |        |
| Switching Time                              | 3:1                                                                                  |                                                         |       |       |       |       |                   |        |        |
| Current Sharing Imbalance                   | ≥94%                                                                                 |                                                         |       |       |       |       |                   |        |        |
| <b>Standards</b>                            |                                                                                      |                                                         |       |       |       |       |                   |        |        |
| Safety standards (CE standard)              | EN50091-1                                                                            |                                                         |       |       |       |       |                   |        |        |
| EMC standards (CE standard)                 | EN50091-2                                                                            |                                                         |       |       |       |       |                   |        |        |
| Radiological standards and safety standards | FCC CLASS A, CE                                                                      |                                                         |       |       |       |       |                   |        |        |
| EMC/EMI                                     | Conduction                                                                           | EN50091-2                                               |       |       |       |       |                   |        |        |
|                                             | Radiation                                                                            | EN50091-2, CLASS A                                      |       |       |       |       |                   |        |        |
|                                             | Harmonic currents                                                                    | IEC1000-3-4                                             |       |       |       |       |                   |        |        |
|                                             | Anti-interference performance                                                        | EN61000-4-23.4.6.8.9.11 Level III, EN61000-4-5 Level IV |       |       |       |       |                   |        |        |
| <b>System</b>                               |                                                                                      |                                                         |       |       |       |       |                   |        |        |
| Color                                       | RAL7035 UV resistant                                                                 |                                                         |       |       |       |       |                   |        |        |
| Protection                                  | Short circuit protection; lightning protection; EMC filtering; isolation transformer |                                                         |       |       |       |       |                   |        |        |
| IP Grade                                    | IP30 (other specifications are customizable)                                         |                                                         |       |       |       |       |                   |        |        |
| Altitude                                    | No derating <2000m (above sea level)                                                 |                                                         |       |       |       |       |                   |        |        |
| Communication                               | Dry contact, RS232, RS485 (MODBUS)                                                   |                                                         |       |       |       |       |                   |        |        |
| <b>Working temperature</b>                  |                                                                                      |                                                         |       |       |       |       |                   |        |        |
| Relative temperature                        | <90% (non-condensing)                                                                |                                                         |       |       |       |       |                   |        |        |
| Noise                                       | <60dB @ 1 meter                                                                      |                                                         |       |       |       |       | <65dB @ 1 meter   |        |        |
| <b>Mechanic dimensions</b>                  |                                                                                      |                                                         |       |       |       |       |                   |        |        |
| Size W*D*H(mm)                              | 550 x 800 x 1800                                                                     |                                                         |       |       |       |       | 1100 x 800 x 1800 |        |        |
| Weight(kg)                                  | 400                                                                                  | 515                                                     | 570   | 590   | 620   | 980   | 1160              | 1350   | 1950   |

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