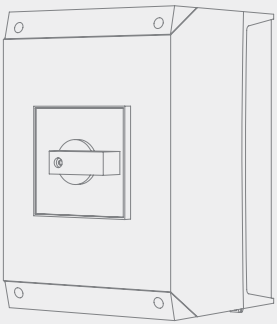
ECOFLOW

User Manual

V1.0



Manual Transfer Switch

For more details, check the latest user manuals or related documents.
https://www.ecoflow.com/support/download/

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Safety Instructions

Disclaimer

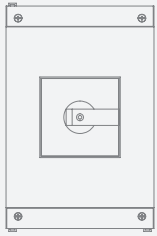
Please read the product documents and ensure that you understand it fully before using the product. After reading this document, keep it for future reference. Improper use of this product may cause serious injury to yourself or others, or cause product damage and property loss. Once you use this product, it is deemed that you understand, approve and accept all the terms and content in this document. EcoFlow is not liable for any loss caused by the user's failure to use the product in compliance with the product document.

In compliance with laws and regulations, EcoFlow reserves the right to the final interpretation of this document and all documents related to the product. This document is subject to changes (updates, revisions, or termination) without prior notice. Please visit EcoFlow's official website to obtain the latest product information: https://www.ecoflow.com/.

Safety instructions

- Read this manual before any operation.
- INCONSISTENT VOLTAGE WARNING: check if the line voltage matches the voltage range displayed in the device's nameplate.If not, damage to the device may occur,

What in the Box



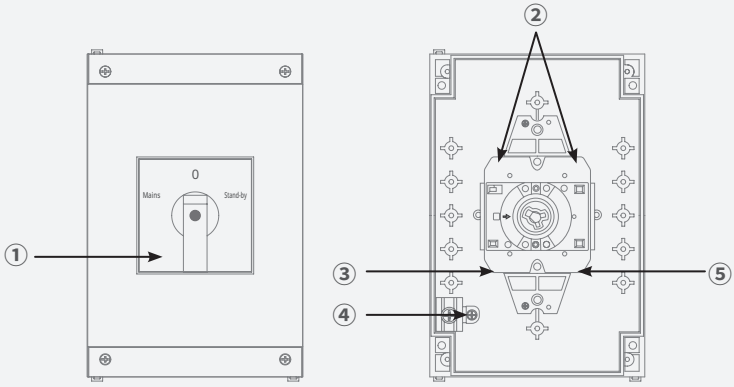
Manual Transfer Switch x1

Product Overview

The Manual Transfer Switch (MTS) is a simple yet powerful device that allows manual switching between two power sources: Mains (Grid Power) and backup power, such as Delta Pro Ultra (DPU) or Delta Pro 3 (DP3).

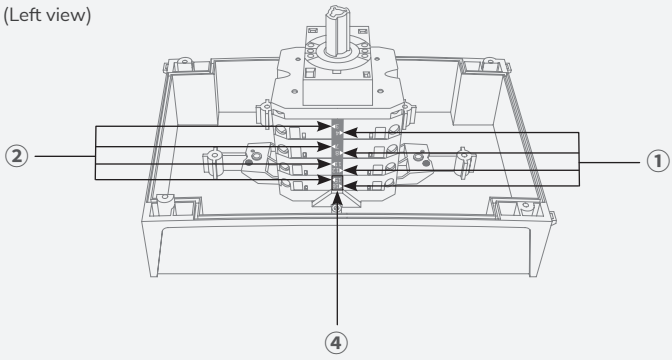
This flexibility enables users to optimize energy usage based on power availability and cost considerations.

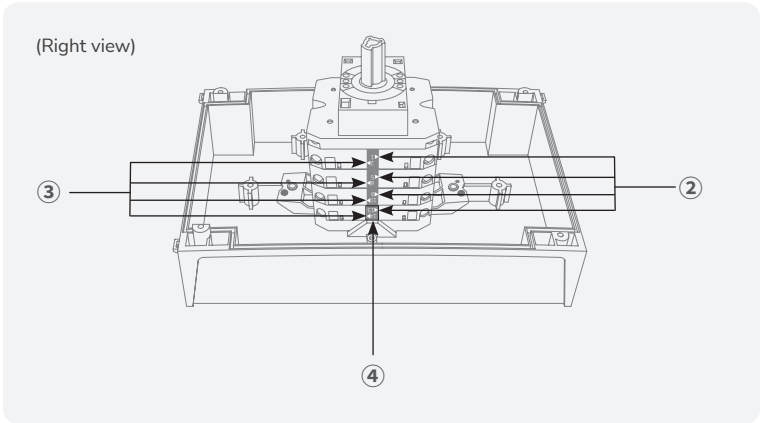
Structure

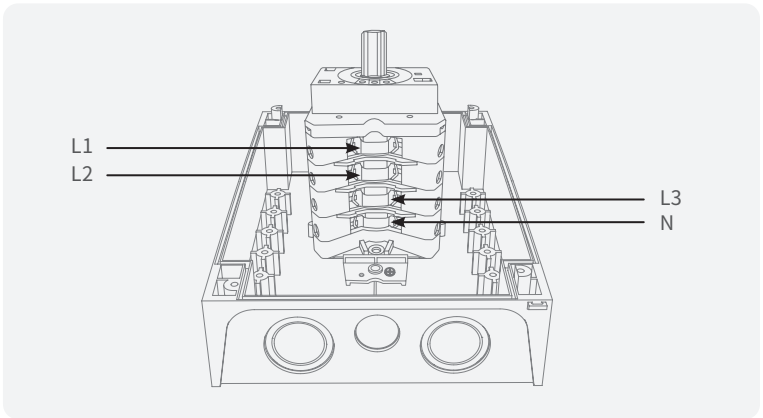


No	Parts
①	Mains/backup power control switch
②	Load output terminals
③	Backup power input terminals
④	Ground lug
⑤	Main power input terminals

Terminal definition and description







No	Terminals markings	Descriptions
①	Terminal 4,8,12,16	Terminals for backup power. Connect to the AC output power of DPU or DP3.
②	Terminal 3,7,11,15 (left side) & Terminal 1,5,9,13 (right side)	Terminals for loads. Make sure to short circuit the other one if one terminal of the same live wire is connected to loads.
③	Terminal 2,6,10,14	Terminals for main power
④	Terminal 13,14,15,16	Neutral terminals
L1, L2, L3	Live terminals	

Preparing Materials and Tools

· Materials

WAGO 5-port slicing connectors (Max.6mm&10mm)

IEC60309 Waterproof CEE Industrial Connector Plug 3-Pin 32A (230V) (For Delta Pro Ultra)

IEC60309 Waterproof CEE Industrial Connector Plug 3-Pin 16A(For Delta Pro 3)

25-32MM & 20MM Cable connectors

25-32MM & 20MM conduit or raceways (For wallmount wiring)

5.6mm screws×4

Cable to connect MTS to the electrical panel (Use original cable or or NYM-J 5x10qmm)

Power cable H07RN-F 3G6 for DP 3, Power cable H07RN-F 3G10 for DPU (Connect MTS to EcoFlow DPU/DP3)

· Tools

Electrical screwdriver

Diagnal pliers

Wire strippers

Electrical pen

Level

Philips screwdriver

Multimeter

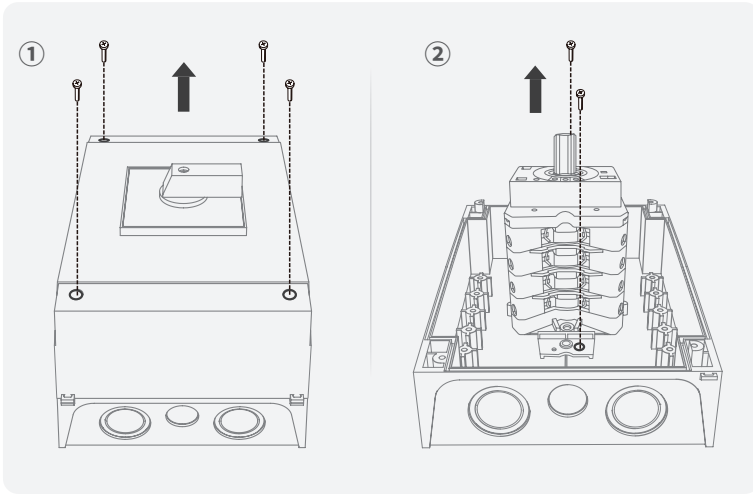
Insulated gloves

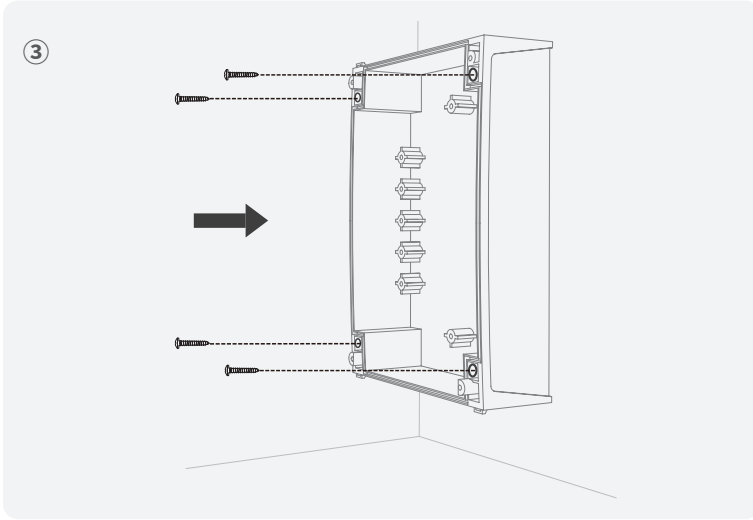
IProtective gloves

Installation & Wiring

Installation

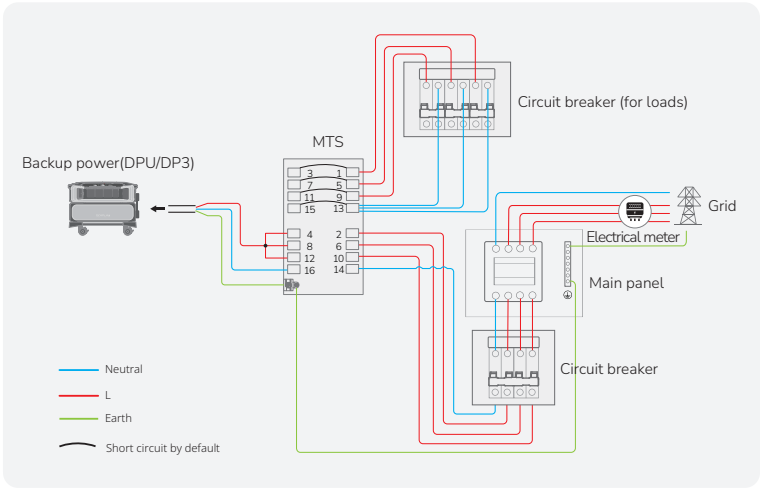
Follow the steps below to install the MTS on the wall.





Wiring for three-phase scenarios

- The Delta Pro Ultra or Delta Pro 3 only supports single-phase AC output, suitable for powering single-phase household devices such as lighting fixtures, televisions, computers, refrigerators, and regular washing machines. If the household distribution system uses a three-phase four-wire system (three phase wires + neutral wire), when powered by the energy storage system, it can only supply power to the circuit connected to one of the phase wires (live wire) and cannot meet the power requirements of three-phase electrical devices.
- Do not connect the DPU charging socket to the MTS system under any circumstances. Always connect the charging socket directly to the utility power supply (mains).



Wiring for single-phase scenarios