

INSTALLATION MANUAL



Manufacturer: Urmet Electronics (Huizhou) Ltd.

Address: No.8 Yuanling Road South, Xikeng Industrial Park, Huihuan, Huizhou, Guangdong

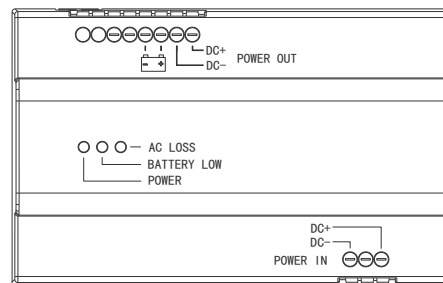
SRD: Unit 5E, Building 210 (West), Tairan Industry & Trade Park, Che Gong Miao, Fu Tian District, Shenzhen, Guangdong

Tel: +86-755-8343 9234

Postcode: 518040

<http://www.urmet.cn>

U1 VOICE Power Module Sch./Ref. 1036/30



Manual version V1.0

Code: SRD-IME1036/20-0117-V1.0

1. INTRODUCTION

This product is the U1 series power supply unit for building intercom system, supplying the power to the system device and detecting the status of system power supply.

1.1 FUNCTIONS

- Overvoltage protection
- Overcurrent protection
- Overtemperature protection
- Short circuit protection
- UPS function for external battery, power failure detection function and battery under-voltage indication function

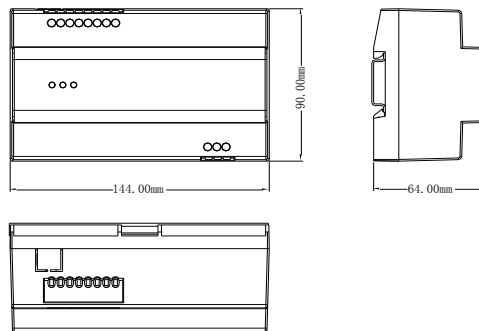
1.2 SPECIFICATIONS

SN	Description		Parameters
1	Input	Input voltage	DC 28V±1V
2		Input current	3A Max.
3	Output	Output voltage	DC 27V±1V
4		Output current	3.0A Max.

5	Protection	Overvoltage protection for battery charge	28V±0.5V
6		Output overcurrent protection	4A ~6A (Auto-recovery)
7		Over-temperature protection for charging circuit	Turn off at 125°C TYP
8		Under-voltage alarm threshold for battery	DC 22.5V±0.5V
9		Over-discharge protection threshold for battery	DC 21.5V±0.5V
10	Environment	Working temperature	-10°C~55°C
11		Storage temperature	-20°C~70°C
12		Working and storage humidity	45%~90%

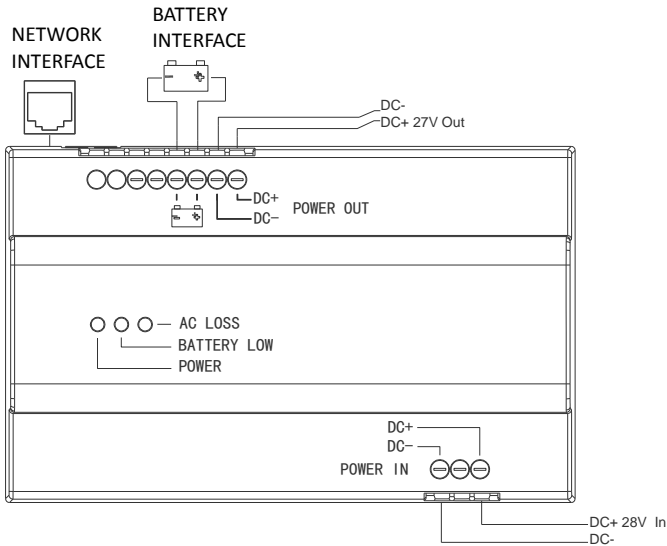
1.3 DIMENSIONS

Overall dimensions (LxWxD): 144x90x64mm



1.4 INSTRUCTION FOR USE

Wiring diagram



Terminal:

POWER IN: DC+ denotes DC28V input, and DC- denotes DC earth.

POWER OUT: DC+&DC-output DC27V±1V voltage, and connect to external supervisor and other system devices.

Battery interface: + denotes 24V positive pole of battery, and - denotes 24V negative pole of battery.

Network interface: Alarm output network interface (connect the switch with netting twine).

Indicator:

POWER: The indicator is red when DC is 28V or the battery is normally working.

BATTER LOW: The indicator is green when the battery voltage is less than 22.5V.

AC LOSS: The indicator is green when DC has power down of 28V or is less than 24.5V.

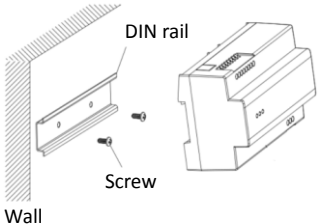
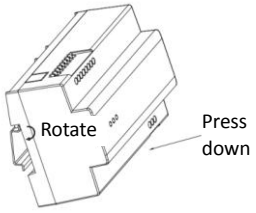
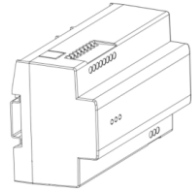
Use function:

The module will report the out-off-supply mains (if any) to the supervisor through network and give out the power down alarm.

Battery Low lights up, reports the message to the supervisor through network and gives out the under-voltage alarm when the storage battery voltage is less than DC22.5±0.5V.

The battery will power off when the storage battery voltage is less than DC21.5±0.5V, and stop to supply until the mains is normally working.

2. INSTRUCTION FOR INSTALLATION

 <p>DIN rail</p> <p>Screw</p> <p>Wall</p>	<p>Step 1: Install fixed DIN rail (put the DIN rail on the wall in horizontal and tighten the screw).</p>
 <p>Rotate</p> <p>Press down</p>	<p>Step 2: Align the product to the DIN rail and move it. Insert the fixed groove, rotate the power box, forcibly press it down, and finish the installation after hearing the cracking sounds.</p>
	<p>Step 3: The state after installing the DIN rail.</p>

3. PRECAUTIONS

- Please keep the device away from high magnetic field, high temperature and humid environment and other environments.
- Falling the device off on earth or violently impacting it is prohibited.
- Do not wipe the device with wet cloth or volatile reagent.
- Only disassemble the device with permission.
- Misconnecting and reversely connecting the power input terminal, power output terminal and battery input terminal are prohibited.
- Misconnecting and reversely connecting the power input terminal and power output terminal are prohibited.

Copyright

Copyright © 2014 Urmet Electronics Limited

All rights reserved.

This manual is protected under international copyright laws. No part of this publication may be reproduced, distributed, translated or transmitted in any form or by any electronic or mechanical means, including photocopying, recording, or storing in any information storage and retrieval system, without the prior written permission of Urmet Electronics Limited.