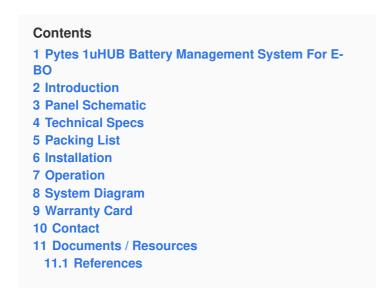


Pytes 1uHUB Battery Management System For E-BO User Guide

Home » Pytes » Pytes 1uHUB Battery Management System For E-BO User Guide 🖔



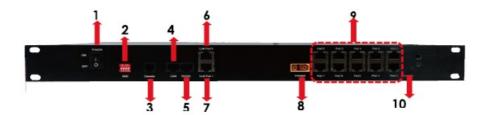


Pytes 1uHUB Battery Management System For E-BO



- PYTES 1uHub is to achieve the function of parallel communication between multiple clusters of batteries and inverter.
- It matches with batteries from PYTES, not with batteries of other brands.

Panel Schematic

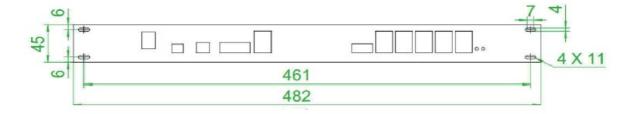


No.	Name	Label	Function		
1	Power Button	Power ON/OF F	Turn on/off 1uHub		
2	DIP Switch	Add	Communication protocol address with PCS. 4 DIPs		
3	RS232 Port	Console	Local Communication to PC, RS232 Protocol. RJ45 Port		
4	CAN Port	CAN	Output Battery information. CAN Protocol. RJ45 Port		
5	RS485 Port	RS485	Output Battery information. RS485 Protocol. RJ45 Port		
6	Cascade	Link Port 0	Link Port O: to Connect to Port 0 of Interface Link Port 1:		
7	Communication Port	Link Port 1	eserved		
8	48V DC IN	Power	XT90 Port		
9	Interface	PortO – Port9	RJ45 Port Porto: Reserved to Connect to Link Port D Port1-Port9: Commnicotion with Moster Battery of each Clu sters.		
10	Indicator Lights	RUN/Alarm	Green indicator: it will flash when power on Red indicator: ii will be on when system alarm		

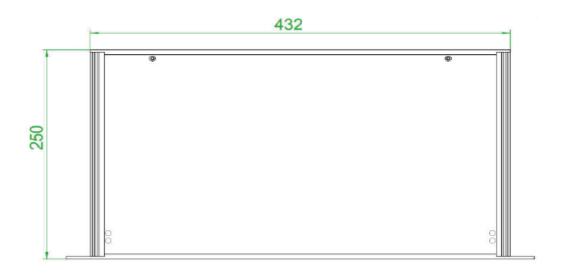
Technical Specs

Nominated Operation Voltage	48Vdc
Communication	CAN/RS485/RS232
Consumption Power	2W
Protection Rate	IP20
Dimensions{W*D*H)	432•250•4smm / 19•9_34•1.77"
Weight	2.2kg / 4.851bs
Operation Temperature	-20°C~60°C /-4°F~140°F

Front View



Top View



Packing List

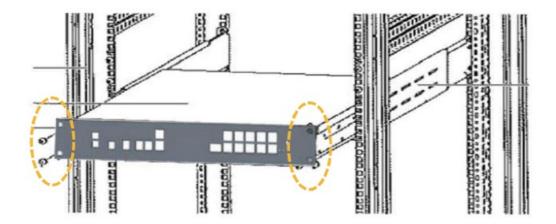
No.	Item	Quantity	Remarks
1	1uHub	1pc	
2	Screws	4pcs	fix 1uHub to Rack
3	Screw Nuts	4pcs	fix 1uHub to Rock
4	Power Cable	1pc	XT90/SC6-8 Lug
5	220mm Communication Cable	1pc	CAT6. Connect Port Oto link Port O
6	1500mm Communication Cable	1pc	CAT6. Pin 3-4[Labeled BATT).4-S[Labled HUB) H ub to Inverter
7	RJ45 Connector	2pcs	Spare pieces
8	User Manual	1pc	

Installation

• Before installation, check whether all the items are complete according to Packing List. Make sure that the inverter, battery and HUB are powered off.

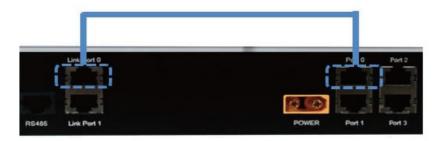
Rack installation

- Place the 1 uHub an the rack guide rail and push the 1uHub as far as it will go.
- Fix the 1 uHub to rack by 4 screws and screws nuts provided in the package.

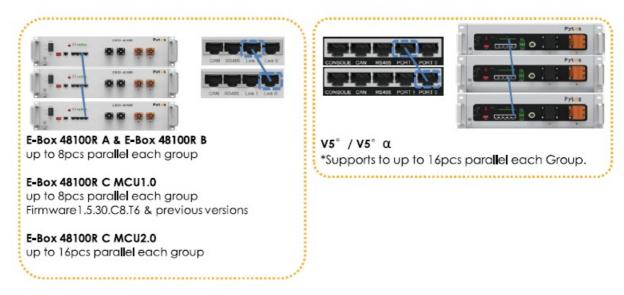


Cable Connection

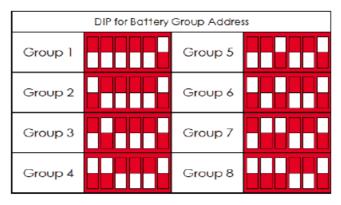
1. Connect Port Oto Link Port O on 1uHub with the 220mm Communication Cable.



- 2. Connect the batteries into a group/Cluster.
 - Link one battery Port O to the other battery Port I one by one. Leave the Port O of master battery empty.



3. Define battery groups sequence by setting DIP switch of each master battery.



- White Bar indicates the DIP position. If the DIP switch of your battery is 4-digit, please only set the first 4
 DIPs and the firmware upgrade needs to be performed.
- 4. Connect Master Batteries from each group to 1uHub with standard pin communication cables. The cable goes from CAN port of each master battery to Port 1 ~ Port 9 on 1 uHub.



to Master Battery of each Group

- 5. According to inverter communication protocol, connect inverter to 1uHub, CAN or RS485 port with custom pin communication cable.
 - 'a 3-4/4-5 cable is included in 1uHub package.
 - BATT Labeled end to I uHub, HUB labeled end to Inverter.



to inverter

Pin Number	1uHub R\$485	1uHub CAN	Deye Sol-Ark	Voltronic	Aiswei Hoymiles Senergy	Afore	SMA	Livoltek
1	R\$485B		RS485B					Н
2			RS485A					L
3	RS485A	Н	GND	RS485B				
4		L	Н		Н	Н	Н	
5			L	RS485A	L	L	L	
6	GND		GND					
7			RS485A					
8			RS485B					
Pin Number	Luxpower	SRNE	Growatt	Goodwe	Victron	MUST	Solis	Megarevo
1	R\$485B							
2	R\$485A							
3								
4	Н		Н	Н			Н	Н
5	L		L	L			L	L
6						L		
7		RS485A			Н	Н		
8		RS485B			L			

- * 1 uHub to Inverter Communication Pin Numbers.
- 6. Set DIP Switche on 1uHub according to inverter brand.

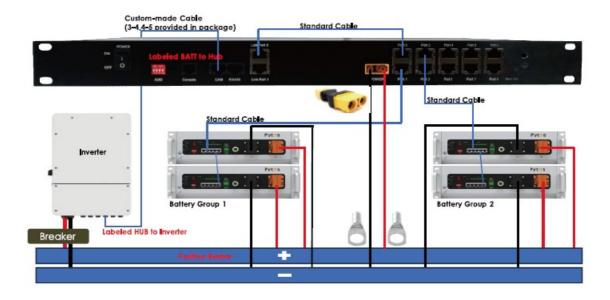
DIP on 1uHub - PCS Communication Protocol Address					
Victron		Deye Solark		Afore	
Voltronic Phocos Epever		Studer		SRNE INHENERGY	
Goodwe		Aiswei (Solplanet)		SMA	
Growatt		Luxpower		Megarevo	
Solis		MUST			

- * White Bar indicates the DIP position.
- 7. Connect power cable XT90 terminal to 1uHub DC input, the other end SC6-8 to main power with a 48V transformer.
 - 1uHub can also be powered by your 48V battery by connecting the SC6-8 end of the power cable to battery external interface.

Operation

- Switch on the batteries, 1uHub and inverter.
- The green indicator light will be on, which indicates 1uHub is running normally.

System Diagram



Warranty Card

Name	
Installation Date	
Installation Address	
Battery Model	
Inverter Model	
Email	

Contact

Shanghai PYTES Energy Co.,Ltd

• Address: No. 3492 Jinqian Road, Fengxian DST, Shanghai China 201406

• Tel: +86 21 57475852

• Website: www.pytesgroup.com

• Email: ess_support@pytesgroup.com

Documents / Resources



Pytes 1uHUB Battery Management System For E-BO [pdf] User Guide 1uHUB, 1uHUB Battery Management System For E-BO, Battery Management System For E-BO, Management System For E-BO

References

• User Manual

Manuals+, Privacy Policy

This website is an independent publication and is neither affiliated with nor endorsed by any of the trademark owners. The "Bluetooth®" word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. The "Wi-Fi®" word mark and logos are registered trademarks owned by the Wi-Fi Alliance. Any use of these marks on this website does not imply any affiliation with or endorsement.