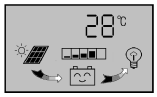
3.3 Str nka teploty

Jak je zobrazeno vpravo, zobrazuje se teplota na displeji kontroleru, tato hodnota se použije pro teplotní kompenzaci nabíjení. Senzor musí být připojen před použitím kontroleru.

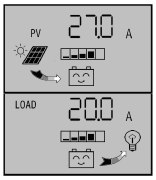


3.4 Nab ec proud sol rn ho panelu

Jak je zobrazeno vpravo, displej zobrazuje nabíjecí proud ze solárního panelu.

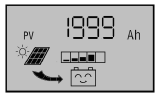
3.5 Vyb ec proud na nap en spot ebi

Jak je zobrazeno vpravo, displej zobrazuje hodnotu vybíjecího proudu pro napájení spotřebičů



3.6 Zobrazen dodan ho proudu ze sol rn ho panelu (Ah)

Jak je zobrazeno vpravo,displej zobrazuje hodnotu dodaného proudu do baterie (Total ampere hour), stlačení tlačítka déle jak 5s hodnotu vynuluje

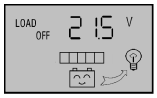


3.7 Zobrazen odebran ho proudu do spot ebi

Jak je zobrazeno vpravo, displej zobrazuje hodnotu odebraného proudu spotřebiči, (Total ampere hour), stlačení tlačítka déle jak 5s hodnotu vynuluje.

3.8 Zobrazen a nastaven ochrany odpo en p i n zk m nap t

Jak je zobrazeno vpravo, shows the values for the LVD protection voltage. When the battery voltage is lower than protection voltage, the controller will disconnect the load circuit to prevent battery over-discharge. ong press the button （>5seconds）in this interface，numbers start flashing, that has entered the LVD setup interface, you can use the key 、 to adjust the parameter. After long press the key （>5seconds）to exit parameter setting interface, the controller will save the settings.



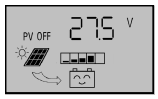
3.9 View and set the Low Voltage Reconnection

As shown on the right, shows the values for the LVR voltage. Under the LVD protection in the controller, when the battery voltage is restored to the higher voltage than LVR voltage, the controller will re-connect the load circuit.

Long press the button （>5seconds）in this interface，numbers start flashing, that has entered the LVR setup interface, you can use the key 、 to adjust the parameter. After long press the key （>5seconds）to exit parameter setting interface, the controller will save the settings.

3.10 View and set the High Voltage Disconnection

As shown on the right, shows the values for the HVD voltage. When the battery voltage is reach to HVD voltage, the controller will cut off the charging circuit to prevent over-charging battery. Battery voltage drops under the value the charging circuit will be re-connected.



Long press the button （>5seconds）in this interface，numbers start flashing, that has entered the HVD setup interface, you can use the key 、 to adjust the parameter. After long press the key （>5seconds）to exit parameter setting interface, the controller will save the settings.

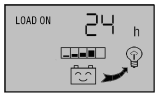
3.11 View and set Load Working Mode

As shown on the right is Load working mode interface, different values represent different load working patterns.

24h said Normal Mode; in case of no fault state of the load is always in power.

1h～23h said Light Control with Time Control Mode, Load power after dark, and close the load according to the timer setting.

0h—said Light Control Mode, Load power after dark, turn off the load after drawn.



Long press the button （>5seconds）in this interface，numbers start flashing, that has entered the Load Working Mode setup interface, you can use the key 、 to adjust the parameter. After long press the key （>5seconds）to exit parameter setting interface, the controller will save the settings.

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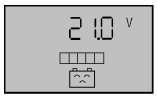
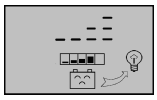
4. Common Fault and Handling

LVD Protection and Treatment:



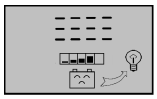
Screen display as shown in the figure that the battery drops below the LVD protection voltage. The controller has entered the LCD protection state, load circuit has been disconnected. Use the solar panels recharge the battery or charger when the battery voltage reaches LVR voltage, the controller will resume on the load power supply, into the normal working state.

Overload Protection and Treatment:



Screen display (see the figure) and flashing expressed load loop circuit current sustained 60seconds than 1.5times rated current, the controller has entered into overload protection state. After reduce the load, press the button to restore power to the load.

Short Circuit Protection and Treatment:



Screen display (see the figure on the right) and flashing expressed there is short circuit on the load loop circuit. The controller has enter into Short Circuit Protection state

Check the load if there is damage or not, if there is cable short circuit or not, after trouble shooting short press the button for restoration.

Solar Panel Fault and Treatment:

Symbol flashing represent the controller was not detected solar panels within 24hours. Check if there is a connection from solar panel, check if there is an open circuit between solar panels with controller.

Load Shock Fault:

Open load if the flashing, that indicate the load impulse current is more than twice rated current of the controller. The controller is restarting the load in action many timers do.

5. Technical Data

Data / Model	CM3024Z		CM3048		Data / Model	CM3024Z	CM3048
Rated Current	20A	30A	20A	30A	**Installation cable area.**	≤ (16mm^2)	
Rated Voltage	12V/24V		48V		**Operating Temperature**	-10℃~60℃	
Open Circuit Voltage of solar panel	≤50V		≤100V		**Storage temperature**	-30℃~70℃	
Float Voltage	13.8V/27.6V		55.2V		**Humidity requirements**	≤90%,no condensation	
Low Voltage Disconnection(LVD)	10.7V/21.4V		42.8V		**Size**	90 mm×188 mm×48 mm	
Low Voltage Reconnection(LVR)	12.5V/25.0V		50.0V		**Mounting hole spacing**	60 mm×178 mm --Φ5	
No load loss	≤30mA		≤		**weight**	360g	
Loop Voltage Drop	≤170mV		≤				
Charging Mode	PWM mode						
Temperature Compensation	-4mV/Cell/℃						
Notes	Model suffix "Z" represent automatic identify system voltage level，"T" represent controller with remote monitoring.						

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