



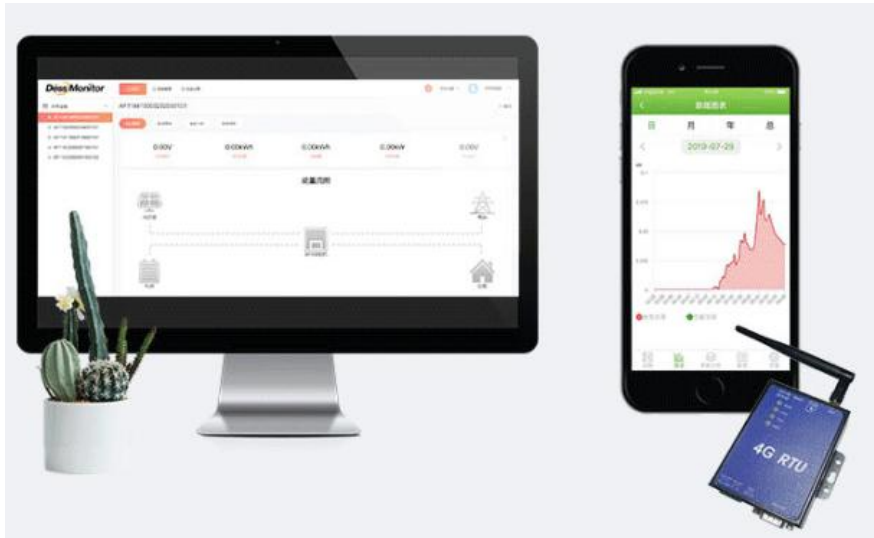
Didisolar MPPT Solar Charge Controller

The most advanced MPPT charge controller in the world.

Didisolar

Intelligent APP and remote monitor

Real-time control solar controller related data



Data Drawing

Overview system

Data details

Parameter analysis

System settings

Warning management

Connect 4G/WIFI/GPRS by the RTU. You can read data in real time through background APP network and provide you more thoughtful service and experience.

Why choose Didisolar MPPT solar controller



| | MPPT CONTROLLER | PWM CONTROLLER |
|--------------------|----------------------|--------------------|
| Solar panel power: | 1000W | 1000W |
| PV Voltage | 100V | 100V |
| PV Current | 10A | 10A |
| Charging Current | 69A | 10A(No change) |
| Effectiveness | 99.5% | 75% |
| Charge model | Three-stage charging | Injection charging |
| PV input voltage | 18V-180V | No support |

Charging is fast in sunny days and more in cloudy days



The controller has a lightning protection function, which can be input with high voltage, and can generate electricity with weak light. Therefore, the battery can be charged in the same rainy day.

Support various type of batteries and battery voltages



Support lead-acid,colloid,lithium battery and other batteries. Using three-stage charging,effectively protecting the battery and improving the battery life.

Support 12V/24V/36V/48V/60V/72V/96V series batteries,and can set corresponding charging parameters according to different batteries and voltages. Perfect battery protection and battery life extension.

Our advantages

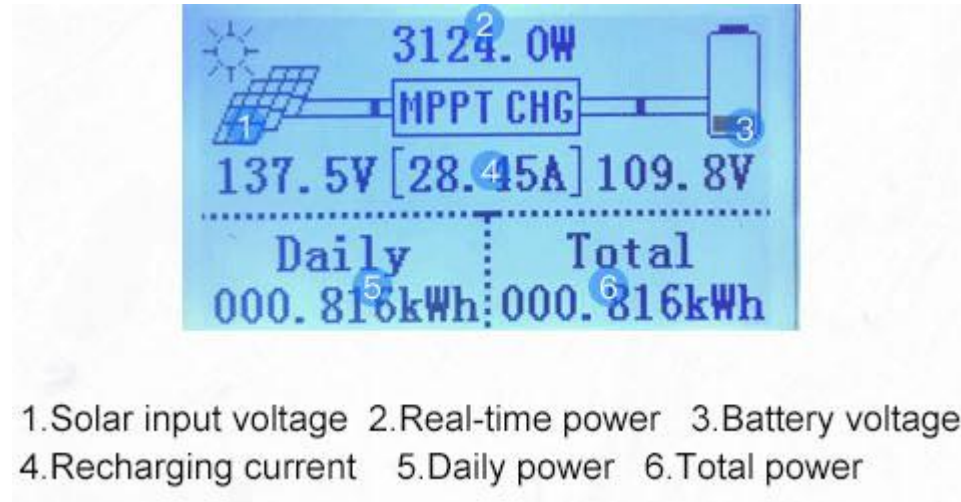
We have been focusing on MPPT controller for more than 10 years.



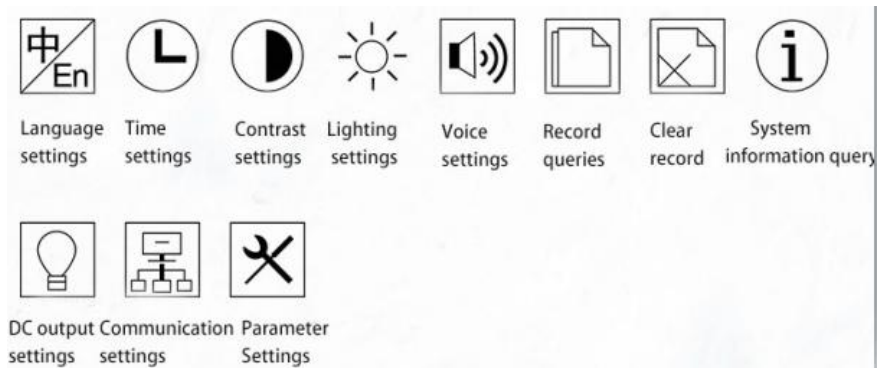
1. Display real-time power generation and current.
2. Display the daily power generation curve and current curve.
3. Chinese and English, multi-function LCD screen and operation menu.
4. Display fault records so that customer can eliminate faults in time.
5. Support lead-acid batteries, colloidal batteries and lithium batteries.
6. Intelligent maximum power point tracking technology improves efficiency by 25% to 30%.
7. Battery temperature sensor (BTS) automatically provides temperature compensation.
8. Perfect protection function.
9. The latest MPPT algorithm is used to track the maximum power point of solar power generation in real time. The charging efficiency is over 98.5 % and the tracking accuracy is over 99.73 %.
10. Super fast tracking speed, tracking once per second.

Intelligent LCD display

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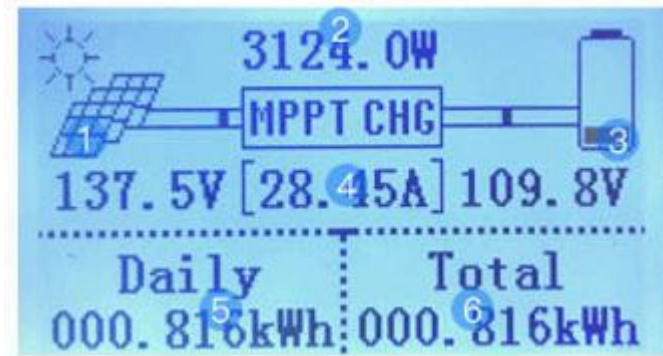


1.Solar input voltage 2.Real-time power 3.Battery voltage
4.Recharging current 5.Daily power 6.Total power

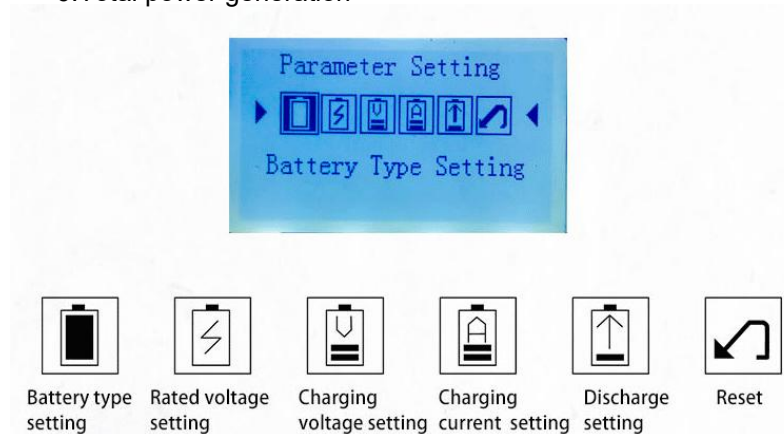


Intelligent LCD display

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- 1.Solar input voltage
- 2.Real-time power
- 3.Battery Voltage
- 4.Recharging current
- 5.Daily power generation
- 6.Total power generation



Intelligent LCD display

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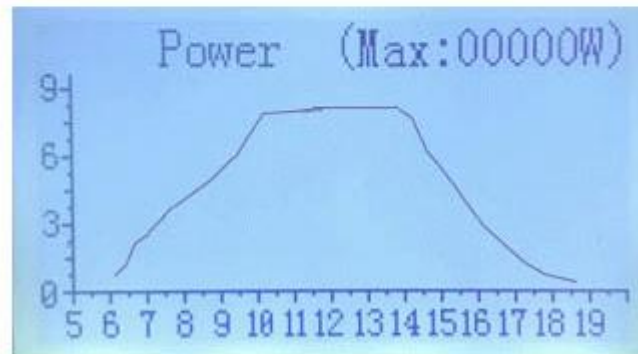
- 1.Date
- 2.Time
- 3.Product specifications
- 4.Working status
- 5.External temperature
- 6.Internal temperatuer

Intelligent LCD display

We have been focusing on MPPT controller for more than 10 years.



Daily power generation current curve



Daily power generation curve

Product Parameters

We have been focusing on MPPT controller for more than 10 years.

20A30A



2.6KG

Didisolar

Product Parameters

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40A50A60A

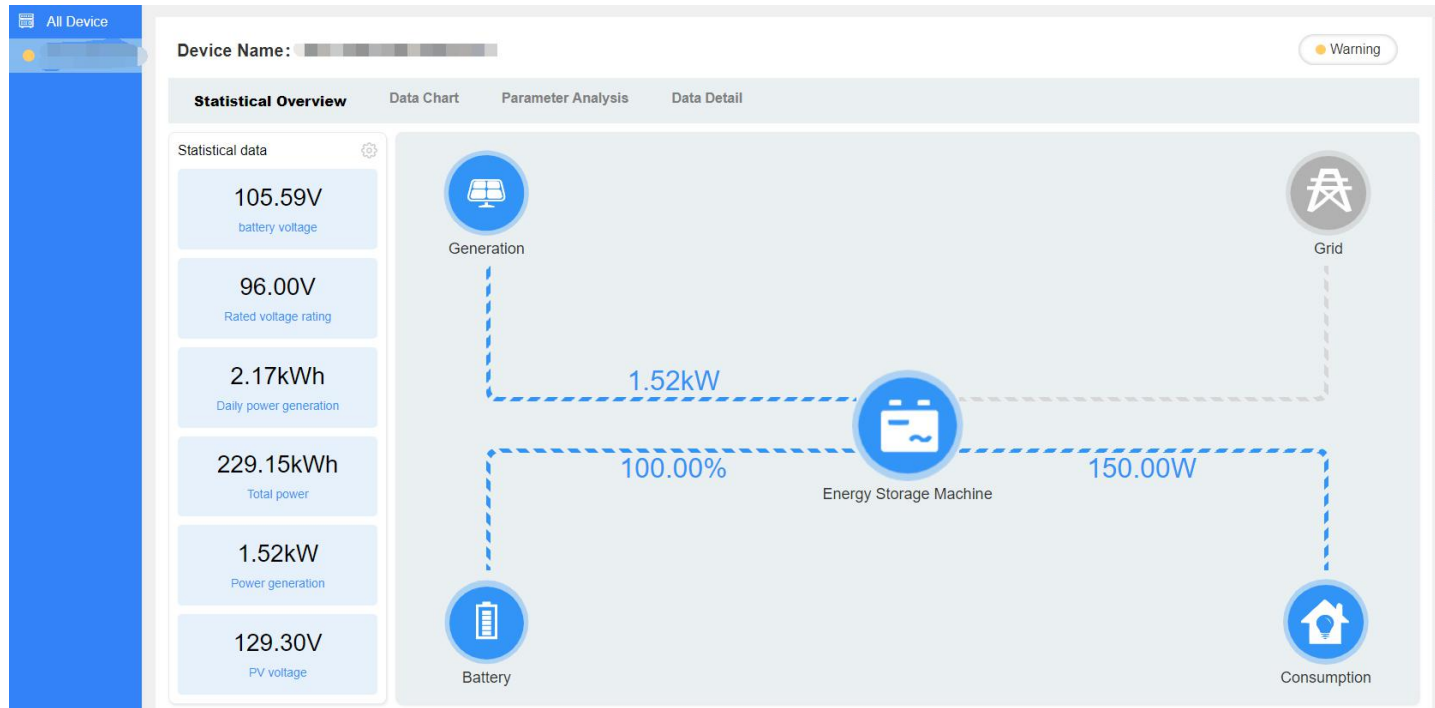


3.6KG

Didisolar

App

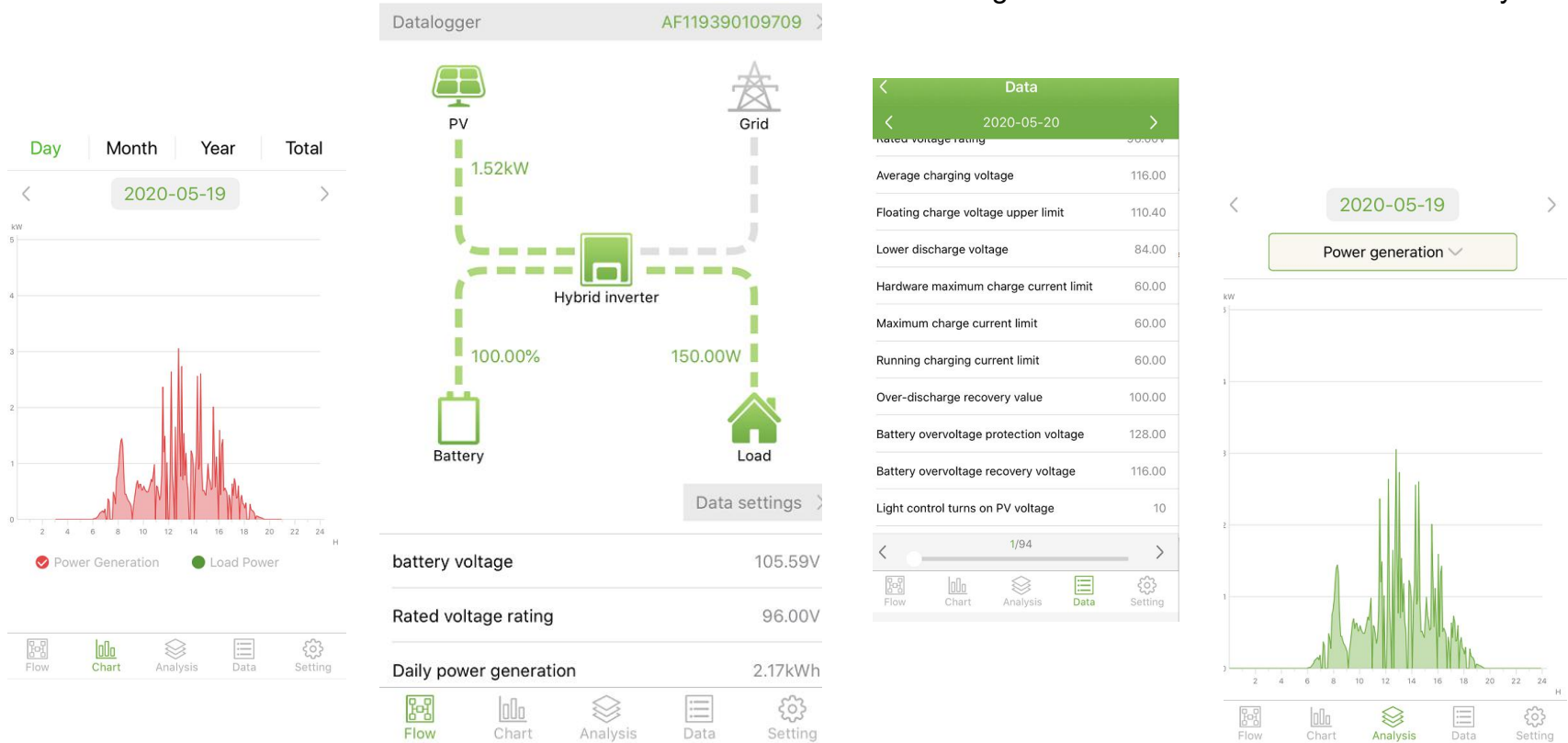
We have been focusing on MPPT controller for more than 10 years.



We have website and mobile APP. Through the APP, we can query information about the operation of the MPPT controller. For example, daily power generation, real-time power generation, cumulative power generation and battery power. We also added fault records, which are similar to aircraft Black box. This will record the faults that occur during the operation of the controller so that after-sales personnel can solve the problem as soon as possible.

App

We have been focusing on MPPT controller for more than 10 years.



| Model | TYC-20IR | TYC-30IR | TYC-40IR | TYC-50IR | TYC-60IR | TYC50A96 | TYC60A96 |
|---|--|----------|----------|--------------|----------|-----------|----------|
| Rated voltage | 12/24/48V Auto | | | | | 96V | |
| Rated current | 20A | 30A | 40A | 50A | 60A | 50A | 60A |
| Maximum protection current | 22A | 32A | 42A | 52A | 62A | 52A | 62A |
| Battery voltage identification range | 12V(DC9-DC15V); 24V(DC18-DC30V); 48V(DC36-DC60V) | | | | | 72V-120V | |
| MPPT Operating voltage range | 12V (DC18V~DC150V); 24V(DC34V~DC150V);48V(DC65V-150V) | | | | | 120V-180V | |
| Maximum PV input power | 12V280W | 420W | 570W | 700W | 900W | 5600W | 6800W |
| | 24V550W | 840W | 1130W | 1400W | 1700W | | |
| | 48V1100W | 1650W | 2270W | 2800W | 3400W | | |
| PV input low voltage protection point | 12V:DC16V; 24V:DC30V; 48V:DC60V | | | | | 115V | |
| PV input low pressure recovery point | 12V:DC18V; 24V:DC34V; 48V:DC65V | | | | | 120V | |
| Limit input voltage | DC160V | | | | | 180V | |
| PV input overvoltage protection point | DC150V | | | | | | |
| PV input overvoltage recovery point | DC145V | | | | | | |
| Static power consumption | ≤2 W | | | | | | |
| Machine efficiency | ≥96.5%≤99% | | | | | | |
| PV module utilization | ≤99% | | | | | | |
| Float voltage (can be customized) | 12V: 13.75V; 24V: 27.5V; 48V: 55V | | | | | 110V | |
| Average charge voltage(can be customized) | 12V: 14.2V; 24V: 28.4V; 48V: 56.8V | | | | | 113.6V | |
| Recommended PV module voltage | 12V:(18V-60V); 24V:(36V-72V); 48V:(72V-144V) | | | | | 144V-180V | |
| Temperature compensation | -3mV°C/2V | | | | | | |
| Temperature protection | 90°C | | | | | | |
| Temperature rise protection | 85 ° C or more to reduce power output | | | | | | |
| Protective function | PV array short circuit, overvoltage, overcurrent reverse polarity protection, battery overcharge, reverse protection | | | | | | |
| Working temperature | -35°C to +55°C | | | | | | |
| Humidity | 0~90%RH (Not condensation) | | | | | | |
| Altitude | 0~3000m | | | | | | |
| Security Level | CE、PSE、FCC、EMC | | | | | | |
| Mechanical protection class | IP21 | | | | | | |
| Colour | Apple green (customizable) | | | | | | |
| Product Size | 218*154*65MM | | | 250*180*75MM | | | |
| Weight | 2.6KG | | | 3.6KG | | | |

Certificate

More than ten years focused on MPPT controllers

شهادة - Certificate - Сертификат - 證明書 - Certificat - 증명서



Certificate of Compliance

No. 3G180813_G55DN81
 Test Report no. POCE18063015RRE, POCE18063004WR2

Certificate's Holder: GUANGZHOU SUNNYSKY SOLAR EQUIPMENT CO., LTD.
 No.6 Building 6, Yiheng Road, Xipengling, Hebian Wushe Industry Area, Baiyun District, Guangzhou, China

Certification ECM Mark: 

Product: MPPT Solar Charge Controller
Model(s): TYC-60IR, TYC-05IR, TYC-10IR, TYC-20IR, TYC-30IR, TYC-40IR, TYC-50IR, TYC-60IR, TYC-50A96, TYC-60A96, TYC-50A220, TYC-100A220, TYC-150A220, TYC-50A380V, TYC-100A380V, TYC-150A380V, TYC-50A400V, TYC-100A400V, TYC-150A400V, TYC-40A96

Verification to: **Standard:**
 EN 60950-1:2006+A11:2009+A1:2010+A12:2011 +A2:2013, EN 55032:2015, EN 55035:2017, EN 61000-3-2:2014, EN 61000-3-3:2013

related to CE Directive(s):
 2014/35/EU (Low Voltage)
 2014/30/EU (Electromagnetic Compatibility)

Remark: The product(s) has been verified on a voluntary basis. The product(s) satisfies the requirements of the Certification Mark of ECM, in reference to the above listed Standard(s). The above Compliance Mark can be affixed on the product(s) accordingly to the ECM regulation about its release and its use. The regulation can be found at www.enteccerma.it. This Certificate of Compliance can be checked for validity at www.enteccerma.it.
 This verification doesn't imply assessment of the production of the product(s).

Additional information, clarification about the CE Marking:
 We attest that a TCF for the CE Marking process is in place. Whereas the Manufacturer is Responsible to start the CE Marking Certification Procedure and to perform all the necessary activities, as required by the Directive before placing the CE Mark on the product(s).



Date of issue 13 August 2018

Chief Manager
Marta Morlino

Expiry date 12 August 2023

Deputy Manager
Amanda Payne


Ente Certificazione Macchine Srl
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RoHS Certificate of Compliance

No. 3G180815_SFTT022
 Test Report no. POCE18081425WR2

Certificate's Holder: GUANGZHOU SUNNYSKY SOLAR EQUIPMENT CO., LTD.
 No.6 Building 6, Yiheng Road, Xipengling, Hebian Wushe Industry Area, Baiyun District, Guangzhou, China

Product: MPPT Solar Charge Controller
Model(s): TYC-60IR, TYC-05IR, TYC-10IR, TYC-20IR, TYC-30IR, TYC-40IR, TYC-50IR, TYC-60IR, TYC-50A96, TYC-60A96, TYC-50A220, TYC-100A220, TYC-150A220, TYC-50A380V, TYC-100A380V, TYC-150A380V, TYC-50A400V, TYC-100A400V, TYC-150A400V, TYC-40A96

Verification to: **Standard:**
 EN 62321-1:2013

Related to Directive(s):
 2011/65/EU amended by 2015/863/EU Restriction of the use of certain hazardous substances (RoHS)

Remark: The product(s) has been verified on a voluntary basis. The product(s) satisfies the requirements of the Certification Mark of ECM, in reference to the above listed Standard(s). The above Compliance Mark can be affixed on the product(s) accordingly to the ECM regulation about its release and its use. The regulation can be found at www.enteccerma.it. This Certificate of Compliance can be checked for validity at www.enteccerma.it.
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Date of issue 15 August 2018

Chief Manager
Marta Morlino

Expiry date 14 August 2023

Deputy Manager
Amanda Payne


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Thank You

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