



DYQUE
Green Energy Solution

Let the world enjoy green energy

DYQUE focuses on developing cutting-edge home and business energy solutions, with products ranging from energy storage systems to solar inverters and EV chargers. Our world-class R&D team of hundreds of top industry experts shares the vision of making the world greener via continuous innovation. With global sales and services, we aim to become our customers' most trusted partner on their journey to a more sustainable future.

www.Dyque.com

Disclaimer: The information in this file is provided on an "as is" basis. To the fullest extent permitted by law, DYQUE Technology Co., Ltd. excludes all representations and warranties relating to this file and its contents or which is or may be provided by any affiliates or any other third party, including in relation to any inaccuracies or omissions in this file.

CONTENTS

Brand

About DYQUE

Product

Residential Solution
Product Portfolio

Trusted Partner

Intelligent Manufacturing
Solar-powered Manufacturing
Quality Assurance
Service Partner



ABOUT DYQUE

DYQUE focuses on developing cutting-edge home and business energy solutions, with products ranging from energy storage systems to solar inverters and EV chargers. Our world-class R&D team of hundreds of top industry experts shares the vision of making the world greener via continuous innovation. With global sales and services, we aim to become our customers' most trusted partner on their journey to a more sustainable future.

VISION Enjoy Green Energy

MISSION
Be a distributed energy pioneer.
Build intelligent energy solutions with superior safety, ultra simplicity, and outstanding performance.

DYQUE

DYQUE GREEN ENERGY SOLUTION

Combining solar, storage and EV charging, DYQUE offers an all-in-one Green Energy Solution that helps you lower utility bill and reliance on the grid. Simple to install, easy to use, smart & safe all around, our system is versatile and scalable to meet every need.

Let numbers talk
DYQUE is raising industry standards

15 mins

stackable installation

5 layers

battery protection

280 Ah

long cycle-life battery cell

0 ms

switchover time

5 mins

fast commissioning

4 layers

system protection

V2X

bi-directional charging

1-click

full system diagnosis



Simple



Versatile

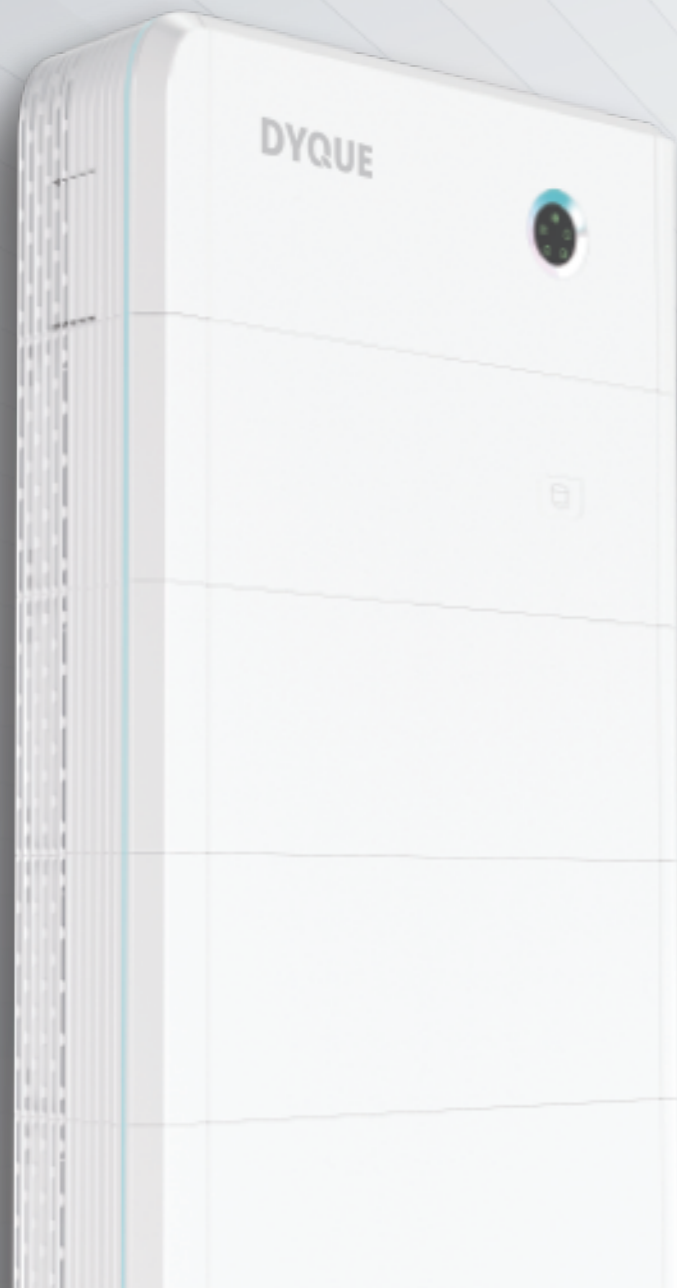


Robust



Intelligent





▶ **DYQUE Energy Controller**
for solar + energy storage system

▶ **DYQUE EV DC Charging Module**
Ready for V2X

▶ **DYQUE Battery**

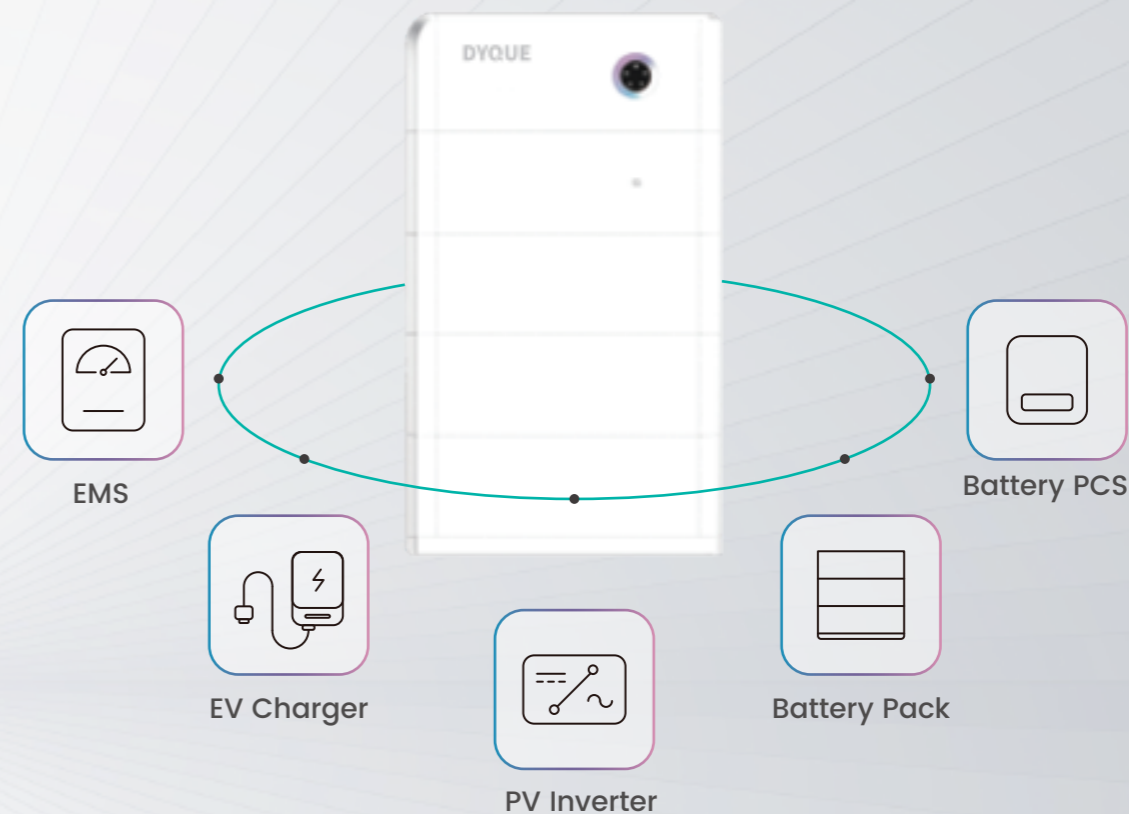
8.0 **5.0**
Energy capacity(kWh)

1 – 6
batteries stackable for a single system

5 kWh – 48 kWh
energy capacity range for a single system

Multiple
systems supported in parallel connection

5-in-One, highly integrated design

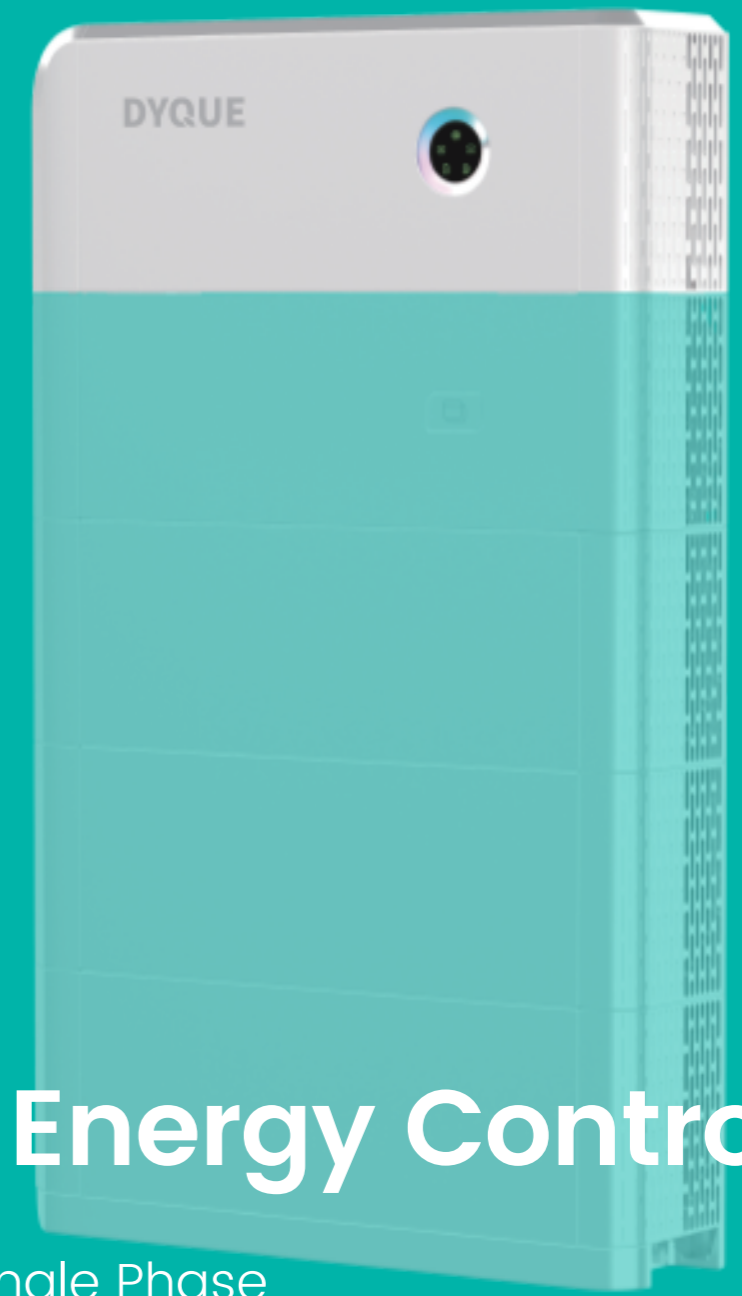


DYQUE is leading a new way of producing, storing, transferring, and consuming home energy. We provide a genuine all-in-one solar energy storage system, DYQUE CUBE. Its unique 5-in-One modular design integrates Solar Inverter, EV DC Charger, Battery PCS, Battery Pack, and EMS into one intelligent home energy system. Simple, robust and versatile, it will be a great addition to your home.

Start small, grow on demand



Controller	x 1	x 1	x 1	x 1	x 1	x 1
Battery	x 1	x 2	x 3	x 4	x 5	x 6
Max. Total Energy Capacity	8 kWh	16 kWh	24 kWh	32 kWh	40 kWh	48 kWh



DYQUE Energy Controller

3.0 – 6.0 kW Single Phase
5.0 – 25.0 kW Three Phase

- EMS inside for precise control
- DC ground-fault protection
- Multi-source black start
- On & off-grid compatibility
- DC/AC ratio up to 2 (single phase)
- IP66 system protection rating

DYQUE Energy Controller 3.0–6.0 kW Single Phase

DYQUE EC	3.0 SP	3.6 SP	4.0 SP	4.6 SP	5.0 SP	6.0 SP	Units	
DC Input (from PV)								
Max. PV power	6000	7360	8000	9200	10000	12000	W	
Max. DC input voltage							600	V
Nominal DC input voltage							350	V
Start-up voltage							100	V
MPPT voltage range							50 ~ 550	V
Number of MPP. trackers							2	
Number of PV strings per MPPT							1	
Max. input current per MPPT							16	A
Max. short-circuit current per MPPT							20	A
AC Output (on-grid)								
Nominal output power	3000	3680	4000	4600	5000	6000	W	
Max. output apparent power	3300	3680	4400	5000	5500	6600	VA	
Nominal output current	13.6	16.0	18.2	20.9	22.7	27.3	A	
Max. output current	15.0	16.0	20.0	22.7	25.0	30.0	A	
Nominal output voltage							220 / 230 / 240	V
Nominal grid frequency							50 / 60	Hz
Power factor							0.8 leading ~ 0.8 lagging	
Total current harmonic distortion							THDi < 2%	
Efficiency								
Max. efficiency							98.0%	
European efficiency	97.0%	97.1%	97.2%	97.3%	97.4%	97.4%		
AC Output (backup)								
Peak output power (10 seconds)	4500	5520	6000	6900	7500	9000	W	
Nominal output voltage							220 / 230 / 240	V
Nominal output frequency							50 / 60	Hz
Power factor							0.8 leading ~ 0.8 lagging	
Total voltage harmonic distortion							THDv < 2%	
Switch time to backup mode ¹							0	ms
Battery Connection								
Battery module models							DYQUE BAT 5.0 / 8.0	
Number of modules per controller							1 ~ 6	pcs
Battery module voltage range							300 ~ 600	V
General Data								
Dimensions (W / H / D)							700 / 300 / 245	mm
Weight							18	kg
Storage temperature range							-40 ~ 70	°C
Operating temperature range							-30 ~ 60	°C
Relative humidity range							0% ~ 95%	
Max. operating altitude							4000	m
Cooling							Natural convection	
System ingress protection rating							IP66	
Communication							WLAN / Fast Ethernet / RS485 / DYQUE CommMod (4G/3G/2G)	
Standard Compliance								
Standard ²							IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 62477, IEC/EN 61000-6-1, IEC/EN 61000-6-3	

1. Need to be used together with DYQUE Gateway and DYQUE Battery. Test conditions: In the open-circuit state of the power grid, the nominal power of the DYQUE Energy Controller is higher than the total power of the home loads.

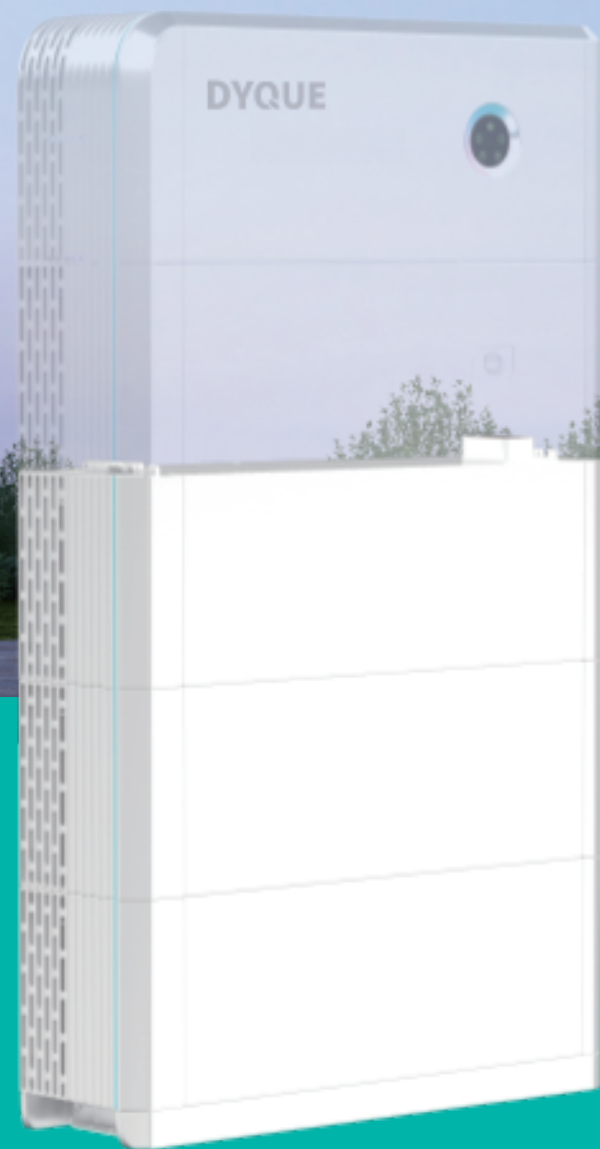
2. For all standards refer to the certificates category in the DYQUE website.

DYQUE Energy Controller 5.0–25.0 kW Three Phase

Preliminary

DYQUE EC	5.0 TP	6.0 TP	8.0 TP	10.0 TP	12.0 TP	15.0 TP	17.0 TP	20.0 TP	25.0 TP	Units	
DC Input (from PV)											
Max. PV power	8000	9600	12800	16000	19200	24000	27200	32000	40000	W	
Max. DC input voltage										1100	V
Nominal DC input voltage										600	V
Start-up voltage										180	V
MPPT voltage range										160 ~ 1000	V
Number of MPP. trackers	2			3			4				
Number of PV strings per MPPT										1	
Max. input current per MPPT										16	A
Max. short-circuit current per MPPT										20	A
AC Output (on-grid)											
Nominal output power	5000	6000	8000	10000	12000	15000	17000	20000	25000	W	
Max. output apparent power	5500	6600	8800	11000	13200	16500	18700	22000	27500	VA	
Nominal output current	7.6	9.1	12.2	15.2	18.2	22.8	25.8	30.4	38.0	A	
Max. output current	8.4	10.0	13.4	16.7	20.1	25.1	28.4	33.4	41.8	A	
Nominal output voltage										380 / 400	V
Nominal grid frequency										50 / 60	Hz
Power factor										0.8 leading ~ 0.8 lagging	
Total current harmonic distortion										THDi < 2%	
Efficiency											
Max. efficiency										98.4%	
European efficiency										98.0%	
AC Output (backup)											
Peak output power (10 seconds)	7500	9000	12000	15000	18000	22500	25500	30000	30000	W	
Nominal output voltage										380 / 400	V
Nominal output frequency										50 / 60	Hz
Power factor										0.8 leading ~ 0.8 lagging	
Total voltage harmonic distortion										THDv < 2%	
Switch time to backup mode ¹										0	ms
Battery Connection											
Battery module models										DYQUE BAT 5.0 / 8.0	
Number of modules per controller										1 ~ 6	pcs
Battery module voltage range										600 ~ 900	V
General Data											
Dimensions (W / H / D)										700 / 300 / 260	mm
Weight										36	kg
Storage temperature range										-40 ~ 70	°C
Operating temperature range										-30 ~ 60	°C
Relative humidity range										0% ~ 95%	
Max. operating altitude										4000	m
Cooling										Smart air cooling	
System ingress protection rating										IP66	
Communication										WLAN / Fast Ethernet / RS485 / DYQUE CommMod (4G/3G/2G)	
Standard Compliance											
Standard ²										IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 62477, IEC/EN 61000-6-1, IEC/EN 61000-6-3	

1. Need to be used together with DYQUE Gateway and DYQUE Battery. Test conditions: In the open-circuit state of the power grid, the nominal power of the DYQUE Energy Controller is higher than the total power of the home loads.

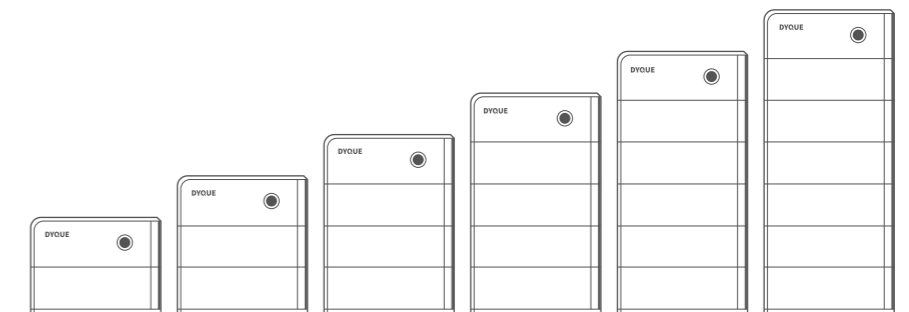


DYQUE Battery

- Large cell capacity, low voltage & durable
- Multi-layer full battery safety protection
- Visible battery status on DYQUE Energy APP
- Quick connectors for fast installation
- AI enablement, optimized battery cycle life
- Parallel connections for flexible battery mix

DYQUE Battery 5.0 / 8.0 kWh

DYQUE BAT	5.0	8.0	Units
Performance Specification			
Battery type	LiFePO ₄		
Total energy capacity	5.38	8.06	kWh
Usable energy capacity ¹	5.2	7.8	kWh
Battery modules voltage range (single phase system)	300 ~ 600		V
Battery modules voltage range (three phase system)	600 ~ 900		V
Max. charge / discharge power	2500	4000	W
Peak charge / discharge power (10 seconds)	3750	6000	W
General Data			
Weight	55	70	kg
Dimensions (W / H / D)	767 / 270 / 260		mm
Storage temperature range	-25 ~ 60		°C
Operating temperature range	-20 ~ 55		°C
Relative humidity range	5% ~ 95%		
Max. operating altitude	4000		m
Cooling	Natural convection		
System ingress protection rating	IP66		
Installation method	Floor standing / Wall-mounted		
Standard Compliance			
Standard	IEC/EN 60730-1, UN 38.3, IEC/EN 62619, IEC/EN 63056, IEC/EN 62040		



Number of battery modules ²	1	2	3	4	5	6	pcs
Total energy capacity	8.06	16.12	24.18	32.24	40.3	48.36	kWh
Max. charge / discharge power	4	8	12	16	20	24	kW
Peak charge / discharge power (10 seconds)	6	12	18	24	30	36	kW
Total weight	94	165	236	307	378	449	kg
Total height (with base)	640	910	1180	1450	1720	1990	mm
Total width (with decorative covers)				850		mm	
Total depth (with decorative covers)				260		mm	

1. Test conditions: 100% depth of discharge, 0.2C rate charge & discharge averagely at 25°C.
 2. The combination of DYQUE BAT 8.0 and DYQUE EC single phase as example.

DYQUE Gateway HomeMax Series

- Multiple breaker positions reserved for DYQUE CUBE or other loads
- Seamless switch to backup mode, worry-free energy usage
- Ready for generator, heat pump or other controllable loads
- Support both whole home backup & partial home backup
- 350 ms reverse power flow protection of grid & generator
- Uninterrupted power supply through PV+ESS/grid/generator



DYQUE Gateway HomeMax Single / Three Phase

Preliminary

DYQUE Gateway	HomeMax SP	HomeMax TP	Units
Grid Connection			
Grid connection type	Single phase	Three phase	
Nominal AC input / output voltage	220 / 230 / 240	380 / 400	V
Nominal AC input / output current	100	76	A
Nominal AC input / output power	22 / 23 / 24	50 / 52.6	kW
Nominal AC frequency		50 / 60	Hz
Grid disconnection switchover time ¹		0	ms
AC Output to Backup Port			
Nominal AC output voltage	220 / 230 / 240	380 / 400	V
Nominal AC output current	100	76	A
Nominal AC output power	22 / 23 / 24	50 / 52.6	kW
Nominal AC frequency		50 / 60	Hz
Oversvoltage category		III	
Inverter Connection / EV Charger Port (optional)			
Max. number of connection	3	2	
Nominal AC voltage	220 / 230 / 240	380 / 400	V
Nominal AC input current	32	38	A
Max. AC nominal power per inverter connection	7 / 7.4 / 7.7	25 / 26.3	kW
Compatible EV charger power	7	11 / 22	kW
EV charging mode	Solar boost charging, time-based charging, load balancing		
Smart Port Connection			
Generator output voltage	220 / 230 / 240	380 / 400	V
Nominal input / output current	63	76	A
Nominal AC input / output power	13.8 / 14.5 / 15.1	50 / 52.6	kW
Dry contact switch voltage rating		250 / 30	Vac/Vdc
Dry contact switch current rating		1	A
Generator 2-wire start		Supported	
General Data			
Dimensions (W / H / D)	455 / 660 / 179	510 / 750 / 179	mm
Weight	19	23	kg
Storage temperature range		-40 ~ 70	°C
Operating temperature range		-30 ~ 55	°C
Relative humidity range		0% ~ 95%	
Max. operation altitude		4000	m
Cooling		Natural convection	
Ingress protection rating		IP54	
Communication		Fast Ethernet, RS485, dry contact	
Installation method		Wall mounted	

¹. Need to be used together with DYQUE Energy Controller and DYQUE Battery. Test conditions: In the open-circuit state of the power grid, the nominal power of the DYQUE Energy Controller is higher than the total power of the home loads.

DYQUE Gateway Home Series

- Seamless switch to backup mode, worry-free energy usage
- 350 ms reverse power flow protection of grid
- Uninterrupted power supply through PV+ESS/grid



DYQUE Gateway Home Single / Three Phase

Preliminary

DYQUE Gateway	Home SP	Home TP	Units
Grid Connection			
Grid connection type	Single phase	Three phase	
Nominal AC input / output voltage	220 / 230 / 240	380 / 400	V
Nominal AC input / output current	55	38	A
Nominal AC input / output power	12 / 12.6 / 13.2	25 / 26.3	kW
Nominal AC frequency	50 / 60		Hz
Grid disconnection switchover time ¹	0		ms
AC Output to Backup Port			
Nominal AC output voltage	220 / 230 / 240	380 / 400	V
Nominal AC output current	55	38	A
Nominal AC output power	12 / 12.6 / 13.2	25 / 26.3	kW
Nominal AC frequency	50 / 60		Hz
Overtoltage category	III		
Inverter Connection			
Max. number of connection	1		
Nominal AC voltage	220 / 230 / 240	380 / 400	V
Nominal AC input current	55	38	A
Max. AC nominal power per inverter connection	12 / 12.6 / 13.2	25 / 26.3	kW
General Data			
Dimensions (W / H / D)	400 / 550 / 179		mm
Weight	15.5	16.5	kg
Storage temperature range	-40 ~ 70		°C
Operating temperature range	-10 ~ 45		°C
Relative humidity range	0% ~ 95%		
Max. operation altitude	2000		m
Cooling	Natural convection		
Ingress protection rating	IP54		
Communication	Fast Ethernet , RS485, dry contact		
Installation method	Wall mounted		

¹. Need to be used together with DYQUE Energy Controller and DYQUE Battery. Test conditions: In the open-circuit state of the power grid, the nominal power of the DYQUE Energy Controller is higher than the total power of the home loads.

DYQUE Communication Module

- IP66 protection rating, more reliable
- Plug & play, easy to use
- Support 2G / 3G / 4G communication



DYQUE Communication Module

	DYQUE CommMod	Units
Connection interface	USB	
Installation type	Plug-and-play	
Display	LED indicators	
Dimensions (W / H / D)	52 / 112 / 33	mm
Weight	90	g
Ingress protection rating	IP66	
Power consumption (typical)	< 4	W
Supported standards	4G: FDD-LTE / TDD-LTE 3G: WCDMA / HSDPA / HSUPA / HSPA+ 2G: GSM / GPRS / EDGE3	
Storage temperature range	-40 ~ 70	°C
Operating temperature range	-30 ~ 60	°C
Relative humidity range	0% ~ 95%	
Max. operating altitude	4000	m
Controller / Inverter compatibility	DYQUE Energy Controller series DYQUE Hybrid Inverter series DYQUE PV Inverter series	



DYQUE Energy App

Green and smart energy management for homeowner

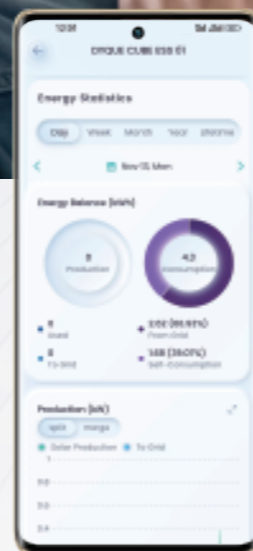
Powered by DYQUE Energy



Real-time monitoring



Detail working state information



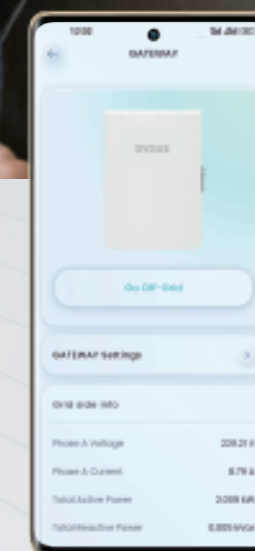
Smart Energy Statistics



Detail Energy Statistics



Real-time device information



Smart and remote device control

DYQUE Energy App

Easily complete your installation fast on one APP for installer Powered by DYQUE Energy



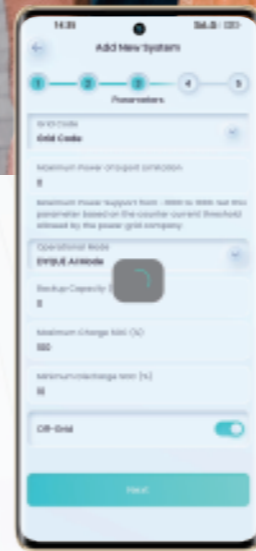
Scan to add a new system



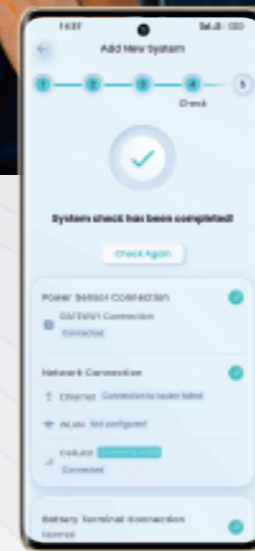
Fast software upgrade



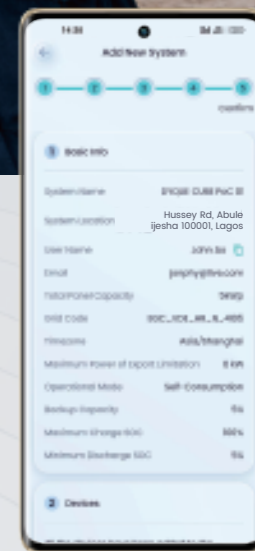
Add devices



Confirm preset parameters



Smart check for system



Confirm



Manufacturing Execution System (MES)

Quality and efficiency is consistently guaranteed by our MES system, which monitors, tracks, documents, and controls the entire manufacturing process from raw materials to finished products, as well as full product lifecycle management.

Where Quality Meets Perfection

At DYQUE, our unwavering commitment to putting the customer first is at the core of everything we do. We firmly believe that delivering top-quality products is paramount to ensuring customer satisfaction and building long-term relationships. With a relentless pursuit of excellence, we constantly strive to develop innovative products that meet and exceed customer expectations. Our strict implementation of rigorous quality control guarantees that every product leaving our factories is of the highest standard. Moreover, we never settle for complacency; Instead, we embrace a culture of continuous improvement to constantly enhance our products and surpass industry standards.



Join Us Achieve Together

As service partners, you can enjoy



More Credibility

As an official service partner, you may get more access to financial support, as well as helping your customers qualify for government rebates.

Training & Certification

We offer continuous technical training to prepare you and uplift your skills. You can earn more customer trust by getting certified.

Recognition & Rewards

The higher customer satisfaction rating you get, the more prizes and financial rewards you'll receive.

Operations Care

Whatever you need, your business gets priority support from us. Large premium partners also receive spare parts without up-front payment.

Simplified Process

Whether for installation or service, our one-stop mobile App will assist you all the way to ensure a quick and smooth experience.

Exclusive Promotion

As a certified service partner, your business potential is maximized by our priority recommendation to your local customers.