

Solar & Energy Storage Solutions

Mingding Tongsheng / MDTs Global

China-based B2B international trading
& supply chain solutions company



PV array photograph from JA Solar official materials

Trade with China, Made Simple.

PV modules / Inverters / Energy storage / System coordination

Your China-side sourcing and coordination partner

MINGDING TONGSHENG

MDTS is a China-based B2B international trading & supply chain solutions company. We help overseas buyers organise product selection and supplier communication around the requirements of a real project.

One point of coordination

A solar and storage purchase involves more than a module, inverter or battery. The right model, electrical interfaces, market documentation and delivery scope need to align. MDTS connects those discussions on the China side.

01

Selection

Compare relevant product platforms against your application and specification.

02

Technical coordination

Check model identities, electrical limits and the evidence behind proposed configurations.

03

Supply and delivery scope

Coordinate supplier questions, quality requirements, documentation and export preparation.

Manufacturer names identify products and source materials. They do not imply agency, exclusivity or a commitment of inventory.

The application sets the direction.

Start with how the energy will be used. We will help define the component scope.

01

Residential hybrid

Solar self-consumption and defined backup loads.

PV + hybrid inverter + residential ESS

[EXPLORE 04 / 09-17](#)

02

Off-grid & backup

Power for sites with limited or unreliable grid access.

PV + off-grid inverter + battery + controls

[EXPLORE 05 / 12 / 20-23](#)

03

Small commercial

Rooftops and storage for shops, offices and workshops.

PV + three-phase inverter + scalable ESS

[EXPLORE 06 / 10-18](#)

04

C&I / large ESS

Site-level storage with a clear integration boundary.

Cabinet or multi-cabinet storage + project controls

[EXPLORE 07 / 13 / 18-19](#)

05

Portable / field power

Transportable PV for temporary and mobile use.

Folding PV + a matched charging interface

[EXPLORE 08 / 22-23](#)

Residential hybrid

Solar production, battery storage and selected backup loads in one coordinated brief.



Dyness official application rendering.

Project priorities

Self-consumption, backup duration, single- or three-phase service and available installation space.

Product directions

JA Solar modules, Deye hybrid inverter platforms and Dyness low- or high-voltage residential storage.

MDTS coordination

Define the battery architecture and inverter route, then check the exact pairing, operating limits and required documents.

Send the country, target kW / kWh and any existing inverter model.

Off-grid & backup

A load-first approach for remote sites, workshops and essential services.



Dyness official application rendering.

Project priorities

Continuous and starting loads, daily energy use, battery autonomy and any generator input.

Product directions

Deye off-grid platforms, selected OEM inverter references, PowMr hybrid options and charge controllers.

MDTS coordination

Review the load profile, PV input limits, battery voltage, protection devices and changeover requirements.

Send a load list or equipment photos. An initial estimate is enough.

Small commercial

A coordinated rooftop and storage scope for everyday business loads.



Commercial rooftop PV - JA Solar official application image.

Project priorities

Daytime consumption, supply phase, essential loads, available roof area and the purpose of storage.

Product directions

JA Solar modules, Deye three-phase inverter platforms and Dyness Tower Pro or STACK100 Pro storage routes.

MDTS coordination

Separate the PV, conversion and storage requirements, then review the proposed equipment and site interfaces together.

Send a utility bill, roof information or a preliminary single-line diagram.

C&I / large ESS

Storage selection begins with the duty, site conditions and integration scope.



Dyness project photograph: DH200F, Italy.

Project priorities

Energy shifting, backup or another defined duty, plus target power, energy and operating schedule.

Product directions

Dyness DH200Y-C260 and DH800Y platforms, with power-conversion and site-integration scope defined for each platform.

MDTS coordination

Clarify the PCS, EMS, switchgear, protection, thermal management and installation responsibilities before RFQ.

Send the target kW / kWh, site location and grid or microgrid requirements.

Solar power that travels with you.

Folding PV and charging accessories for temporary, mobile and field applications.

100 W

AP-SP-012 REFERENCE

Foldable PV with DC and USB outputs. A portable solar input for compatible equipment.



ALLPOWERS AP-SP-012 source product reference.

ALLPOWERS PORTABLE PV

A matched charging path

ALLPOWERS AP-SP-012 and AP-SP-033-BLA provide portable PV reference options. The panel rating is only one part of selection: the receiving device must also accept the voltage, current and connector arrangement.

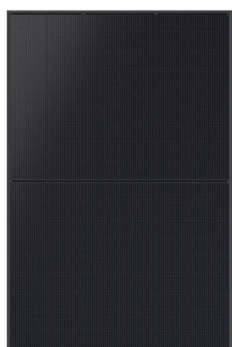
MDTS can coordinate the panel, cable and controller requirements around the equipment you already use. MC4-to-XT60 is a cable interface option, with polarity and input limits checked for the target device.

Send a photo of the input label on your power station or controller.

Product identities and versions follow the source materials. Portable PV does not include a power station unless expressly stated.

PV for residential rooftops

JA Solar 440 W and 455 W platforms for different rooftop and appearance priorities.



JA Solar official series rendering.

440 W

RATED POWER AT STC

JAM54D41-440/GB

Module efficiency

22.5%

Cell type

N-type

Construction

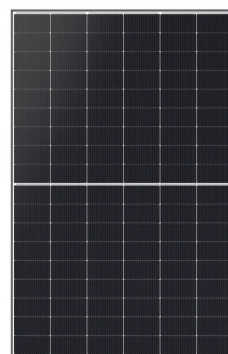
Bifacial double-glass

Nominal dimensions

1722 x 1134 x 30 mm

Weight

21.5 kg



JA Solar official series rendering.

455 W

RATED POWER AT STC

JAM54D40-455/LB

Module efficiency

22.8%

Cell type

N-type

Construction

Bifacial double-glass

Nominal dimensions

1762 x 1134 x 30 mm

Weight

22.0 kg

Specification references: Global-EN-20241105A (440 W) and CN-20241105A (455 W). Electrical ratings at STC.

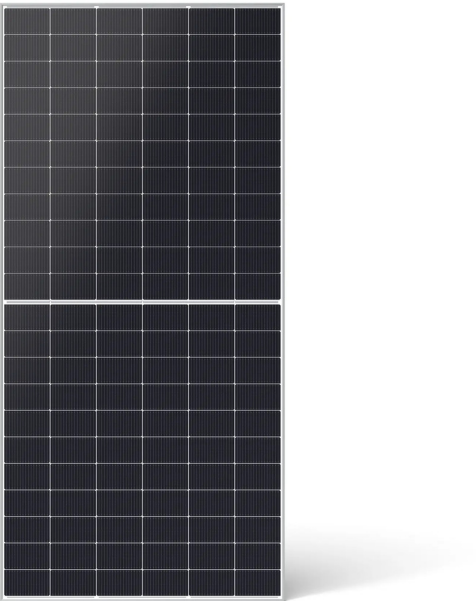
Modules for commercial arrays

JA Solar JAM66D45-630/LB for commercial rooftops and larger PV arrays.

630 W

RATED POWER AT STC

Module format, roof layout and inverter string limits shape a commercial PV selection.



JA Solar official series rendering.

Cell type	N-type
Construction	Bifacial double-glass
Module efficiency	23.3%
Nominal dimensions	2382 x 1134 x 30 mm
Weight	33.1 kg

FURTHER TECHNOLOGY OPTION / DEEPBLUE 5.0

JAM66D50-670/GB

670 W / 24.8% at STC

CN-20260417A specification reference

Send the roof area, mounting constraints and target PV capacity.

630 W specification: Global-EN-20241105A. Module quantity and string design follow the project requirements.

Residential inverter routes

Deye platforms for low-voltage and high-voltage battery architectures.

DEYE / SINGLE-PHASE LV HYBRID

SUN-6K-SG06LP1-EU-CM2

Rated output	6 kW
AC phase	Single-phase
Battery window	40-60 V
MPPTs	2
Max. DC input	500 V
Protection	IP65

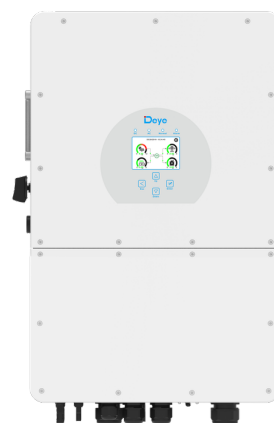


Deye official series rendering.

DEYE / THREE-PHASE HV HYBRID

SUN-12K-SG01HP3-EU-AM2

Rated output	12 kW
AC phase	Three-phase
Battery window	160-700 V
MPPTs	2
Max. DC input	1000 V
Protection	IP65



Deye official series rendering.

AM2 high-voltage pairing examples: Tower Pro and STACK100 Pro, page 24.

Exact model, battery configuration, firmware and target-market requirements are reviewed during RFQ.

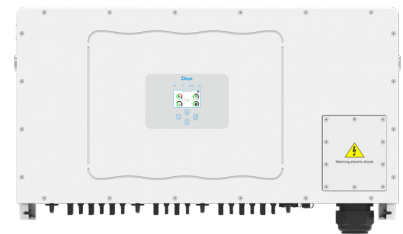
Different jobs. Different platforms.

Grid-connected conversion and standalone supply need their own selection criteria.

DEYE / COMMERCIAL GRID-TIED

SUN-60K-G01P3-EU-AM8-LV

Rated AC power	60 kW
AC phase	Three-phase
MPPTs	8
Max. DC input	800 V
MPPT range	200-700 V
Protection	IP65



Deye official series rendering.

DEYE / OFF-GRID INVERTER

SUN-5K-OG03LP1-EU-AM2

Rated output	5 kW / 5 kVA
Battery window	40-60 V
MPPTs	2
Max. DC input	500 V
Protection	IP65



Deye official series rendering.

The LV suffix of the grid-tied reference identifies a low AC voltage platform. Confirm the site AC voltage and local connection requirements during RFQ.

High-voltage hybrid for larger projects

Deye SUN-100K-SG02HP3-EU-GM8

100 kW

RATED OUTPUT

A three-phase hybrid reference for a project-specific PV and storage design.



Deye official series rendering.

AC phase	Three-phase
Battery voltage range	160-1000 V
MPPTs	8
Max. DC input voltage	1000 V
Protection	IP65

Share the battery architecture and point-of-connection requirements.

Product ratings follow the selected Deye model reference. Battery pairing and system configuration are reviewed during RFQ.

Compact storage options

Dyness low-voltage references for different installation and capacity requirements.



Dyness official series rendering.

Wall or floor storage.

Reference scope: Europe.

Powerbox G3

Nominal energy

10.24 kWh

Usable energy

9.728 kWh

Nominal voltage

51.2 V

Depth of discharge

95%

Max. discharge

200 A / 10.24 kW

Protection

IP65



Dyness official series rendering.

Compact indoor installation.

Reference scope: Global excluding North America, Australia and Ukraine.

DL5.0C Pro

Nominal energy

5.12 kWh

Voltage / capacity

51.2 V / 100 Ah

Max. charge / discharge

75 A / 100 A

Protection

IP20 / indoor

Communication

CAN / RS485

Installation

Wall or floor

Match the storage capacity, available space and installation environment to the project.

More energy in one battery enclosure

Dyness PowerBrick Pro



Dyness official series rendering.

14.336 kWh

NOMINAL ENERGY

Nominal voltage / capacity	51.2 V / 280 Ah
Max. charge / discharge current	200 A / 200 A
Protection	IP65
Communication	CAN / RS485
Dimensions (W x D x H)	435 x 235 x 850 mm

Tell us the usable backup requirement and installation environment.

Published reference scope: Global excluding Ukraine, South Africa and Australia. Specification: 20250624-EN.

Storage built around a tower

Dyness Tower Pro



Dyness official series rendering.

7.68-23.04 kWh

PUBLISHED NOMINAL ENERGY PER TOWER

Published configurations	TP7 / TP11 / TP15 / TP19 / TP23
Battery modules per tower	2-6 x HV9640
Module rating	96 V / 40 Ah / 3.84 kWh
Protection	IP55
Communication	CAN / RS485

A published tower configuration is the starting point for inverter review.

Published reference scope: Global excluding North America, Australia, South Africa, Brazil and Middle East. Specification: 20251030-EN.

Storage that follows the project scale

Dyness STACK100 Pro



Dyness official series rendering.

15.36-76.8 kWh

PUBLISHED NOMINAL CLUSTER ENERGY

Battery modules per cluster	3-15
Module nominal / usable energy	5.12 / 4.864 kWh
Protection / cooling	IP66 / natural cooling
Controller	SBDU100 Pro
Communication	CAN / RS485

Inverter-specific module counts are reviewed separately. See page 24.

Published reference scope: Germany, Netherlands, Central Asia. Specification: 20251103-EN.

A cabinet platform for commercial storage

Dyness DH200Y-C260



Dyness official series rendering.

261 kWh

NOMINAL ENERGY

Rated AC power options	99.9 / 124.9 / 125 kW
Cooling	PACK liquid / PCS air
System protection	IP55
Dimensions (W x D x H)	1055 x 1475 x 2400 mm
Integration	PCS + EMS + BMS

Power version, grid mode and site integration define the RFQ scope.

Published reference scope: Global excluding North America, Australia and Japan. Specification: 20260729-V1.5-EN.

Energy and power matched to the duty

Dyness DH800Y



Dyness official series rendering.

836 kWh

NOMINAL ENERGY PER PUBLISHED CONFIGURATION

Rated AC power	420 kW (2H) / 210 kW (4H)
Battery voltage range	1206.4-1497.6 Vdc
On-grid parallel expansion	10 systems (2H) / 20 (4H)
Cooling	Fully liquid-cooled
Protection / corrosion	IP55 / C3 or C5 by configuration

Specify the operating duty, power target and site control requirements.

Published reference scope: Global excluding North America and Australia. Specification: 20260305-EN.

Configurable inverter options

MDTS Reference / Selected OEM Solution

MDTS-HYB-6248

Rated power	6200 W
Battery voltage	48 V
AC output	230 VAC +/-5%
Max. PV input power	8500 W
MPPT range	60-500 V
Max. PV input current	27 A
Max. charging current	120 A



OEM series rendering.

MDTS-HYB-3624

Rated power	3600 W
Battery voltage	24 V
Output waveform	Pure sine wave
Max. PV input power	Up to 5000 W
PV / MPPT range	60-500 V

24 V

For a compact solar supply brief.

Share your load profile and preferred battery voltage.

MDTS codes identify sourcing references. Final configuration, grid functions and market requirements follow the RFQ review.

Backup and hybrid options

Selected OEM supply and a named PowMr product reference.

MDTS REFERENCE / SELECTED OEM SOLUTION

MDTS-INV-1512

Rated power	1200 W
Battery voltage	12 V
Output waveform	Pure sine wave
AC output	220 VAC +/-10%
Max. PV open-circuit voltage	50 V DC
Max. PV power	800 W



OEM series rendering.

POWMR MANUFACTURER MODEL

PowMr POW-ECO-6KW

Rated power	6000 W
Battery voltage	48 V
AC output	220 / 230 / 240 V
MPPT range	50-500 V
Max. PV open-circuit voltage	520 V
Communication	Wi-Fi / BMS



PowMr product reference.

Send your AC load, battery voltage and required operating mode.

Grid/export functions, communication support and the exact equipment configuration follow the project review.

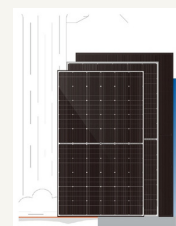
Fixed and folding PV

Selected OEM and ALLPOWERS references for different supply requirements.

MDTS REFERENCE / SELECTED OEM SOLUTION

MDTS-PV380-P

Rated power	380 W
Cell type	P-type monocrystalline
Technology	Mono-PERC
Construction	Half-cell / 108 cells
Connector	MC4-compatible



OEM series image.

PORTABLE PV REFERENCE

ALLPOWERS AP-SP-012

Rated power / voltage	100 W / 18 V
Unfolded size, approx.	940 x 940 x 10 mm
Folded size, approx.	320 x 190 x 90 mm
Weight, approx.	2.15 kg
Outputs	DC + 2 x USB

PORTABLE PV REFERENCE / 18 V VERSION

ALLPOWERS AP-SP-033-BLA

Rated power	200 W
Voc / Vmp	22.2 / 18 V
Isc / Imp	12 / 11 A
Unfolded / folded size	2230 x 650 / 650 x 515 mm
Weight / output	Approx. 6.3 kg / MC4-compatible

Portable panel views: pages 8 and 23. Match the connector, polarity and electrical input limits to the receiving device.

Controllers and connections

MDTS Reference / Selected OEM Solution

MDTS-PWM10-U

PWM / 10 A

12 / 24 V auto

USB 5 V / 2 A

MDTS-PWM20-U

PWM / 20 A

12 / 24 V auto

USB 5 V / 2 A

MDTS-MPPT10-U

MPPT / 10 A

12 V system

Max. PV 45 V / 2 x USB

MDTS-MPPT20

MPPT / 20 A

12 / 24 V auto

External USB optional

MDTS-CBL-MC4-XT60

MC4-compatible to XT60 cable reference.

LENGTH OPTIONS FOR RFQ

1.5 / 2.0 / 2.5 / 3.0 / 3.5 m

Confirm conductor size, current rating, polarity and connector version.



ALLPOWERS AP-SP-033-BLA
18 V panel / interface context

Send the connector photo and the receiving device input label.

PWM and MPPT controllers serve different charging designs. Component ratings and protection follow the selected system.

Compatibility has a specific scope.

Selected combinations are listed in Dyness compatibility documentation.

MDTS reviews the exact inverter, battery configuration, firmware and target-market requirements during RFQ. Model suffixes and the number of battery modules are part of that review.

Residential LV

PowerBrick Pro / Powerbox G3 / DL5.0C Pro

Deye SUN-5/6/8/10/12K-SG04LP3-EU

Dyness list dated 15 July 2026

Tower Pro

TP7 / TP11 / TP15 / TP19 / TP23

Deye SUN-5K~25K-SG01HP3-EU-AM2

Dyness Tower Pro compatibility list, 28 May 2026

STACK100 Pro

4S-12S listed for this inverter group

Deye SUN-5K~25K-SG01HP3-EU-AM2

Dyness STACK100 Pro list, 25 August 2026

Send the full model label and firmware information when available.

The AM2 model group includes the 12 kW reference on page 11. Listed battery configurations and module counts remain inverter-specific.

A coordinated configuration review

Clear interfaces help each component do its intended job.

01 PV input

Module identity, string voltage and current, MPPT allocation and connector suitability.

Useful input: Module datasheet and proposed string layout

02 Inverter and AC system

Phase, AC voltage, grid or off-grid duty, backup loads and generator requirements.

Useful input: Single-line diagram and load priorities

03 Battery and communication

LV or HV architecture, module count, battery operating window and manufacturer-listed communication scope.

Useful input: Full battery / inverter labels and software versions

04 Installation and controls

Protection, grounding, site environment, enclosure placement, monitoring and responsibility boundaries.

Useful input: Site conditions and local installation requirements

A preliminary diagram is welcome. We can help identify the open points.

Evidence behind the product conversation

Manufacturer materials help focus the technical questions for your project.



JA Solar module production line. Official 2024 ESG report image.

Manufacturing context

We review the identity and scope of the source material, then connect the relevant questions to the selected product and supply route.



Deye inverter test system. Official image.

Product-specific follow-up

Test evidence, inspection requirements and the final document set are reviewed for the actual order scope.



Dyness cell inspection. Official image.

Manufacturer photographs show their published processes. Product-specific evidence is reviewed for the selected model and configuration.

Product checks and supplier follow-through

An earlier MDTS automotive battery review shows the working discipline we bring to solar and storage.



Earlier MDTS product review: physical dimensions and label details checked against the stated specification.

The same discipline for solar & storage

Check the physical product. Record its dimensions and label details. Compare them with the stated specification, then take open questions back to the supplier.

For solar and storage, we apply this discipline to model and version checks, enclosure format, system interfaces and the documents required for the selected configuration.

OEM supply options for a defined brief

MDTS Selected OEM Solutions



Selected OEM wall-mounted product reference.



Selected OEM floor-standing product reference.

Wall, floor and rack formats

Existing supplier-side product materials support a further route for buyers who need an OEM storage format alongside the named manufacturer platforms.

MDTS coordinates the specification, enclosure, interface, branding and document questions with the selected supply source. The project brief determines which options merit a detailed RFQ.

Send your target capacity, installation format and OEM requirements.

Images show selected OEM product references. MDTS acts as the trading and supply coordination company. Manufacturer identity and final specification are confirmed through the project process.

The purchase scope extends beyond hardware.

MDTS coordinates the information needed to move a defined project forward.

01 Technical documents

Align the model, version and configuration across datasheets, manuals, compatibility references and the proposed equipment list.

02 Market requirements

Identify the destination and requested certificates, then review the relevant document scope and model coverage.

03 Quality coordination

Agree on the inspection focus, labels, quantities, packaging and evidence needed for the order.

04 Export preparation

Coordinate the commercial documents, shipment scope and transport documentation applicable to the selected products.

05 Commercial confirmation

Confirm price, MOQ, lead time, warranty terms, supply form and quotation validity for the actual RFQ.

A useful first enquiry can be simple.

You do not need every technical answer before contacting us.

01 Share what you have

Send the country, project type and target power or energy. A photo, bill of materials or existing specification is a useful start.

02 Clarify the brief

We organise the missing questions around loads, equipment, market requirements and the purchase scope.

03 Review suitable options

MDTS compares relevant platforms and coordinates the technical and commercial questions on the China side.

04 Confirm the project offer

The selected configuration, documents, quantities and commercial conditions become the basis for a project-specific quotation.

Start with the information already on your desk.

Your starting brief

Copy these fields into an email, or send your own existing files.

Country / market

Destination country, installation location and delivery point

Project type

Residential, off-grid, backup, small commercial, C&I or portable

Equipment required

PV modules, inverter, battery, complete supply scope or accessories

Target power / energy

PV kWp, inverter kW, battery kWh or a load list

Quantity / phase

Units or project stages, and single- or three-phase AC supply

Existing equipment

Inverter / battery manufacturer, full model and firmware if known

Constraints

Certification, grid connection, installation, temperature or space

Supporting material

Datasheets, photographs, drawings, utility bill or preliminary BOM

Missing information can follow. Send what you have.

Let us discuss your project

Send us what you already have.

Country / target market, application, target product, power / energy requirement, current specification, photos, BOM or approximate quantity.

Missing information can follow.

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Mingding Tongsheng International Trade Co., Ltd.

China-based B2B international trading
& supply chain solutions company

Specifications, compatibility, certification, warranty and commercial availability may vary by model, configuration and market. Project-specific conditions are confirmed during RFQ review.

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Contact update only. Technical content retained from V1.1.