

PRODUCT CATALOGUE

POWERING AUSTRALIA'S NEXT GENERATION ENERGY

A curated product and solution catalogue for EV charging, battery storage, diesel generation, specialised power and commercial solar projects.

EV

CHARGING INFRASTRUCTURE

BESS

STORAGE AND SMART ENERGY

GENSET

DIESEL GENERATOR SYSTEMS

SOLAR

COMMERCIAL PV SOLUTIONS

CATALOGUE GUIDE

CONTENTS

A clean pathway through company context, partnership capability, product categories, product pages and technical matrices.

01	ABOUT SHAKRA ENERGY Company background, Australian project capability and delivery approach	PAGE 03
02	STRATEGIC PARTNERSHIP How Shakra Energy and Shenglong New Energy work together	PAGE 04
03	AC CHARGING PRODUCTS AC range intro and source-backed AC model matrix	PAGES 05-06
04	DC FAST CHARGING AND CONNECTORS DC charging systems plus connector and plug compatibility matrix	PAGES 07-11
05	PORTABLE CHARGING 7kW portable charging station and CCS2 accessory section	PAGES 12-14
06	BATTERY STORAGE AND MOBILE CHARGING BCH mobile chargers and HBD battery energy storage products	PAGES 15-20
07	DIESEL GENERATOR SYSTEMS Diesel generator range, product pages and model matrices	PAGES 21-31
08	ALTERNATIVE AND FIELD POWER Gas, methanol, biofuel, cold-chain and diesel light tower products	PAGES 32-37
09	SPECIALISED, HYBRID SOLAR AND COMMERCIAL PV Mobile power, hybrid lighting, SPK-120 and commercial solar PV	PAGES 38-49

CATALOGUE PATHWAY

Overview to products to delivery.

- 01

COMPANY CONTEXT
- 02

PRODUCT CATEGORIES
- 03

TECHNICAL MATRICES
- 04

PROJECT DELIVERY

COMPANY OVERVIEW

ABOUT SHAKRA ENERGY

Shakra Energy is an Australian renewable energy infrastructure developer supporting commercial, industrial and utility-scale projects. The business brings together project origination, feasibility, design coordination, delivery planning and lifecycle support so clients can move from opportunity to operational asset with a clear technical and commercial pathway.

01 DEVELOPMENT

Site assessment, feasibility, approvals pathway and project

02 INFRASTRUCTURE

Solar PV, battery storage, EV charging, generators and smart

03 DELIVERY

Australian project coordination, documentation and

04 LIFECYCLE

Operations support, maintenance planning, reporting and long-term

STRATEGIC PARTNERSHIP

SHAKRA ENERGY + SHENGLONG NEW ENERGY

The Shakra Energy and Shenglong New Energy partnership combines Australian market knowledge with established manufacturing capability. It gives clients a single pathway for product selection, technical review, supply coordination and project delivery support across EV charging, energy storage, diesel generation and commercial solar infrastructure.

01 LOCAL DELIVERY

Australian client scoping, project planning and site

02 MANUFACTURING

Shenglong product capability, supply chain and technical

03 ENGINEERING

Specification review, product selection and integration support.

04 LIFECYCLE

Procurement, warranty, documentation and support pathways after

AC CHARGING

AC CHARGING PRODUCT RANGE

Wall-mounted, pole-mounted and pedestal AC charging options for homes, workplaces, fleets and destination charging.

KEY FEATURES

- ✓ Wall, pole and pedestal formats
- ✓ Bluetooth, Wi-Fi, 4G, Ethernet and OCPP options
- ✓ Type 1, Type 2, GB/T and Tesla configurations
- ✓ IP-rated product options for project deployment



MAIN SPECIFICATIONS

SPECIFICATION	VALUE
Power range	22 kW+22 kW or 7 kW+7 kW / 7 / 11 / 22 kW / 7 kW + 7 kW
Installation	Wall / pole / pedestal configurations
Network options	Bluetooth / Wi-Fi / 4G / Ethernet / OCPP 1.6
Use cases	Residential, workplace, fleet and destination charging
Connector options	Type 1 / Type 2 / GB/T / Tesla depending on model
Commercial note	Model selection and pricing confirmed by project scope

AC CHARGING

AC Charger Model Matrix

Detailed AC model rows from the master catalogue.

SERIES	POWER	FORM FACTOR	CONNECTOR	INSTALLATION
Q1 Series	7 / 11 / 22 kW	Wall-mount / pole-mount AC pile	Type 1 (US) / Type 2 (EU) / GB/T (CN) / Tesla	IP66 (mated IP55) / Wall/pole
Q2 Series	7 / 11 / 22 kW	Wall-mount AC pile (designer)	Type 1 / Type 2 / GB/T / Tesla	IP66 (mated IP55) / Wall/pole
Q3 Series	7 / 11 / 22 kW	Wall-mount AC pile (premium)	Type 1 / Type 2 / GB/T / Tesla	IP66 (mated IP55) / Wall/pole
Q3.1 Series	7 / 11 / 22 kW	Wall-mount AC pile w/ LCD screen	Type 1 / Type 2 / GB/T / Tesla	IP66 (mated IP55) / Wall/pole
EV3 Series	7 / 11 / 22 kW	Wall-mount AC pile (compact)	Type 1 / Type 2 / GB/T / Tesla	IP66 (mated IP55) / Wall/pole
QQ Series	7 / 11 / 22 kW	Wall-mount AC pile (rounded)	Type 1 / Type 2 / GB/T / Tesla	IP66 (mated IP55) / Wall/pole
QT Series (dual gun)	7 kW + 7 kW	Wall/pole-mount dual-gun AC pile	Type 1 / Type 2 / GB/T / Tesla	IP66 (mated IP55) / Wall/pole
QT2 Series (dual gun)	22 kW+22 kW or 7 kW+7 kW	Floor-standing dual-gun AC pile	Type 1 / Type 2 / GB/T / Tesla	IP55 (mated) / Pedestal

DC FAST CHARGING

20-40 kW CHARGING SYSTEM

Wall-mount or pedestal

KEY FEATURES

- ✓ High-power commercial charging platform
- ✓ Smart monitoring and platform integration
- ✓ Built for public, fleet and depot deployment
- ✓ Configurable output and connector options



MAIN SPECIFICATIONS

SPECIFICATION	VALUE
Rated output	20 kW / 30 kW / 40 kW
DC output voltage	Per model spec sheet
Maximum current	67A / 100A / 134A
Cooling	-
Efficiency	>=95% at full load
Protection	-

DC FAST CHARGING

60-80 kW CHARGING SYSTEM

Floor-standing

KEY FEATURES

- ✓ High-power commercial charging platform
- ✓ Smart monitoring and platform integration
- ✓ Built for public, fleet and depot deployment
- ✓ Configurable output and connector options



MAIN SPECIFICATIONS

SPECIFICATION	VALUE
Rated output	60 kW / 80 kW
DC output voltage	200-1000 VDC
Maximum current	200A (both)
Cooling	-
Efficiency	>=95% at full load
Protection	-

DC FAST CHARGING

120-320 kW CHARGING SYSTEM

Floor-standing cabinet

KEY FEATURES

- ✓ High-power commercial charging platform
- ✓ Smart monitoring and platform integration
- ✓ Built for public, fleet and depot deployment
- ✓ Configurable output and connector options



MAIN SPECIFICATIONS

SPECIFICATION	VALUE
Rated output	120 / 160 / 240 / 320 kW
DC output voltage	200-1000 VDC
Maximum current	250A
Cooling	-
Efficiency	>=95% at full load
Protection	-

EV CONNECTORS

Connector and Plug Options

Connector range for AU project discussions and vehicle compatibility reviews.

TYPE	STANDARD	DESCRIPTION	AU NOTES
Vehicle Connector	CCS2 (EU)	DC+AC combo - European standard	DEFAULT for AU DC fast chargers - confirm CEC product approval
Vehicle Connector	CCS1 (NA)	DC+AC combo - North American standard	Not normally used in AU; available for export configurations
Vehicle Connector	GB/T (China)	Chinese national-standard DC+AC connector	Specify for Chinese-grey-import vehicles or re-export markets
Vehicle Connector	CHAdeMO (Japan)	Japanese DC fast charge standard	Declining but still required for legacy AU fleet vehicles
Vehicle Connector	Tesla	Proprietary Tesla connector	Useful for branded Tesla-friendly installations
Vehicle Connector	Type 1 (SAE J1772)	AC single-phase connector	Less common in AU; available
Vehicle Connector	Type 2 (IEC 62196 / AU)	AC single & three-phase connector	DEFAULT for AU AC chargers
Dual Port Combo	CCS2 + CCS1	Two DC connectors	Spec on DC chargers >=60 kW
Dual Port Combo	CCS2 + GB/T	Two DC connectors	Suits AU multi-brand fleets
Dual Port Combo	CCS2 + CHAdeMO	EU DC + Japanese DC dual port	Common AU public-charger spec

EV CONNECTORS

Connector and Plug Options continued

Continued technical range.

TYPE	STANDARD	DESCRIPTION	AU NOTES
Dual Port Combo	CCS1 + GB/T	Two DC connectors	Less common AU spec
Dual Port Combo	CHAdEMO + GB/T	Legacy JP + Chinese DC dual port	Niche
Country Plug (input)	AU 20A 250V (AS/NZS 3112)	AU 3-pin plug 20A 250V	AU MARKET DEFAULT for Q22D/Q22E portable units
Country Plug (input)	EU 16A 250V (CEE 7/7 Schuko)	EU Schuko plug	Available
Country Plug (input)	Industrial CEE 32A 480V	Red 3P+N+E industrial socket	AU 3-phase compatible w/ adaptor
Country Plug (input)	Industrial CEE 16A/32A 250V	Blue single-phase industrial socket	AU caravan-park compatible
Country Plug (input)	60+ further variants	USA NEMA 14-30/14-50/6-30/6-50 / UK 13A / Korea / India / South Africa / Israel / Switzerland / Italy / Thail...	Full plug-head catalogue on request - Shenglong will customise per order

PORTABLE CHARGING

PORTABLE CHARGING PRODUCT RANGE

Compact portable charging products for temporary power support, mobile deployment, fleet support and site-based charging needs. This category brings together the 7kW portable charging station and compatible CCS2 charging accessories in one clear product section.



- 01** PORTABLE DC STATION

7kW portable charging station for flexible temporary charging.
- 02** CONNECTOR OPTIONS

GB/T, CCS1, CCS2 and NACS gun-head standards available as
- 03** CCS2 ACCESSORIES

Connector, cable and adaptor accessories for spares and deployment
- 04** APPLICATION PATHWAY

Temporary charging, fleet support, replacement sets and

PORTABLE CHARGING

DC SMALL DC 7KW **PORTABLE**
CHARGING STATION

Compact portable DC charging station with optional GB/T, CCS1, CCS2 and NACS gun-head configurations.

KEY FEATURES

- ✓ 7kW rated DC output power
- ✓ AC90-280V input and DC350-750V output range
- ✓ GB/T, CCS1, CCS2 and NACS gun-head options
- ✓ IP54 protection with 3m charging cable and 1m input line



MAIN SPECIFICATIONS

SPECIFICATION	VALUE
Voltage input range	AC90-280V
Output voltage range	DC350-750V
Rated output power	7kW
Gun-head standards	GB/T, CCS1, CCS2, NACS optional
Cable length	3m charging cable / 1m input line
Protection / weight	IP54 / approx. 28 kg packed

PORTABLE CHARGING

CCS2 CHARGING GUN **ACCESSORY** REFERENCE

CCS2 charging gun and adaptor accessories for DC fast-charging deployments, replacement hardware and project-specific connector configurations.

KEY FEATURES

- ✔ CCS2 / Combo 2 gun style for Australian and European DC charging
- ✔ Accessory hardware for DC fast-charging station configuration
- ✔ Heavy-duty cable and connector body for commercial charging environments
- ✔ Suitable for project spares, replacement sets and charger accessory packages



MAIN SPECIFICATIONS

SPECIFICATION	VALUE
Connector standard	CCS2 / Combo 2
Product type	Charging gun, cable and adaptor accessories
Use cases	DC fast charger accessories, replacements and project spares
Deployment	Commercial, fleet, public charging and infrastructure projects
Availability	Model selection confirmed by charger specification

BATTERY STORAGE AND MOBILE CHARGING

BATTERY STORAGE & MOBILE CHARGING PRODUCTS

BCH mobile BESS chargers and HBD battery systems are grouped here because they are storage-led products: mobile charging, commercial BESS, backup power and genset support.

01 BCH CHARGERS

Mobile BESS charging systems for rapid deployment.

02 C&I BESS

Grid-connected storage for commercial and industrial sites.

03 BACKUP POWER

Self-consumption and backup storage configurations.

04 GENSET MATE

Battery systems designed to reduce fuel use and improve site

BATTERY STORAGE AND MOBILE CHARGING

BCH-600-400 MOBILE BESS CHARGER

Mobile BESS charging solution designed for electric drive equipment and EV emergency charging scenarios.

KEY FEATURES

- ✓ 250 kVA AC side and 400 kW DC side output
- ✓ 407 kWh rated battery storage capacity
- ✓ CCS-2 charging guns and AC socket options
- ✓ Designed for storage, transport and rapid deployment



MAIN SPECIFICATIONS

SPECIFICATION	VALUE
AC output	250 kVA
DC output	400 kW
Battery capacity	407 kWh
Output voltage	DC 50 V-1000 V
Protection	IP54
Dimensions	3950 x 2250 x 2250 mm

BATTERY STORAGE AND MOBILE CHARGING

BCH SERIES MOBILE BESS CHARGER

Charging-anytime mobile BESS charger range for rapid deployment, transportable charging and high-ROI temporary energy applications.

KEY FEATURES

- ✓ Rapid charging and discharging
- ✓ Easy transportation and rapid location
- ✓ Friendly interface for field operation
- ✓ Models from 80-70 through BCH-600-400



MAIN SPECIFICATIONS

SPECIFICATION	VALUE
Series	BCH mobile BESS charger
Power range	80 kW to 600 kW class
Energy range	70 kWh to 400 kWh class
Applications	Emergency charging, power trading and temporary sites
Format	Mobile container/trailer capable
Source	MPMC company introduction 2026

BATTERY STORAGE AND MOBILE CHARGING

HBD A SERIES C&I BESS

Commercial and industrial grid-connected battery energy storage for peak shaving, demand management and high-return energy applications.

KEY FEATURES

- ✓ LiFePO4 battery platform
- ✓ C-4 level anti-corrosion option
- ✓ Expandable power and capacity
- ✓ Designed for high ROI commercial use



MAIN SPECIFICATIONS

SPECIFICATION	VALUE
Series	HBD A Series
Use case	Commercial and industrial grid-connected
Battery	LiFePO4
Applications	Peak shaving and demand management
Format	Stationary BESS
Product	HBD-125-260 / HBD-210-410 / HBD-500 series

BATTERY STORAGE AND MOBILE CHARGING

HBD E SERIES BACKUP POWER

Self-consumption and backup power battery system for economical storage, hybrid inverter integration and weak-grid support.

KEY FEATURES

- ✓ LiFePO4 battery system
- ✓ Hybrid inverter and HVAC configuration
- ✓ Forklift pockets and removable lifting lugs
- ✓ Economical choice for backup power



MAIN SPECIFICATIONS

SPECIFICATION	VALUE
Series	HBD E Series
Use case	Self-consumption / backup power
Battery	LiFePO4
Format	Stationary BESS
Applications	Residential, farm and small C&I
Source	MPMC company introduction 2026

BATTERY STORAGE AND MOBILE CHARGING

HBD R SERIES GENSET MATE

Rental-market BESS designed to work with generators, reduce fuel consumption and provide rapid charge/discharge capability.

KEY FEATURES

- ✓ Rapid charging and discharging
- ✓ Smart management and remote monitoring
- ✓ Extended genset life and fuel savings
- ✓ Millisecond-level switching support



MAIN SPECIFICATIONS

SPECIFICATION	VALUE
Series	HBD R Series
Use case	Genset mate / rental market
Format	Mobile / transportable BESS
Applications	Rental, mining, construction and temporary power
Benefit	Fuel saving and genset optimisation
Source	MPMC company introduction 2026

DIESEL GENERATION

DIESEL GENERATOR PRODUCT RANGE

Configured prime and standby generator products for commercial, industrial, utility and remote power projects.

23

YUCHAI MODEL ROWS

15

CUMMINS MODEL ROWS

5

MTU MODEL ROWS

POA

CONFIGURED PRICING

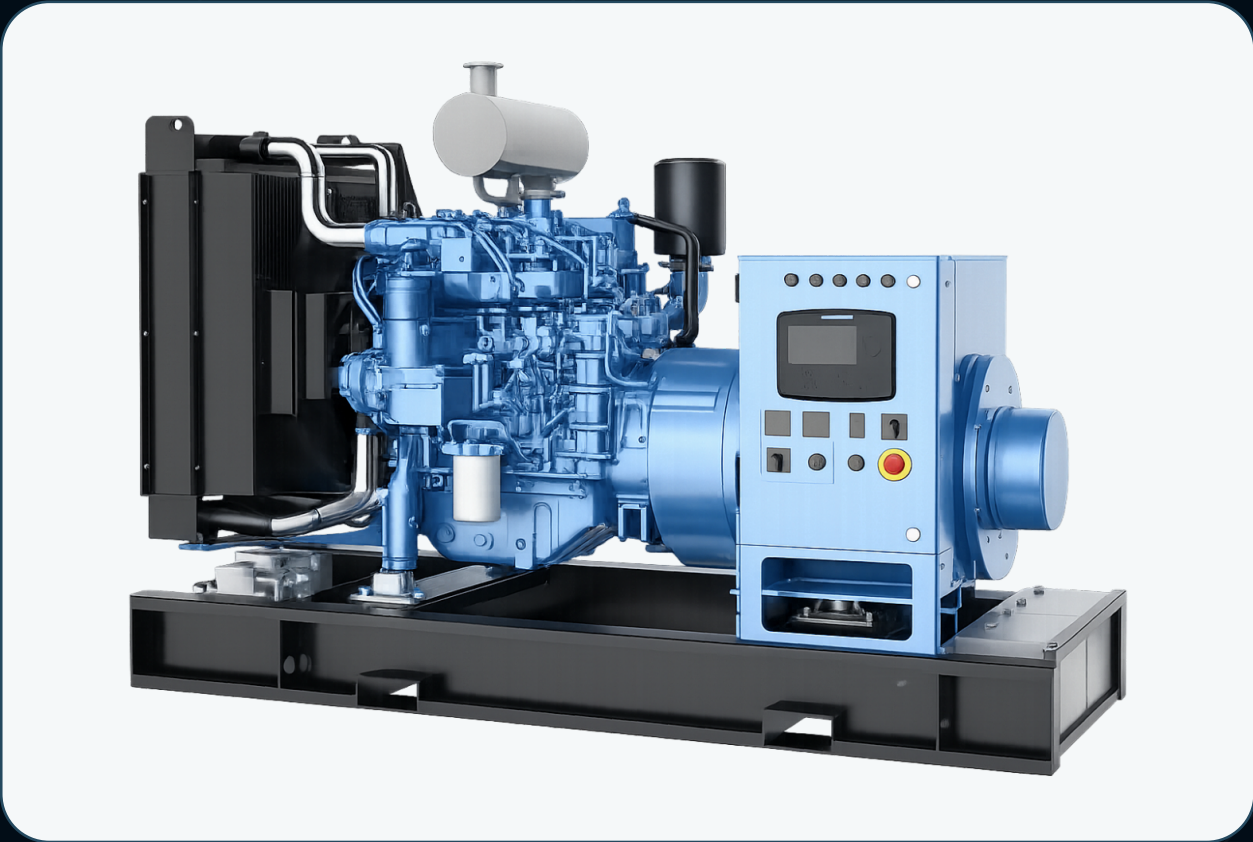
DIESEL GENERATION

Yuchai Engine **Gensets**

Prime and standby diesel generator products for commercial, industrial and remote-site power supply.

KEY FEATURES

- ✔ Configured prime and standby ratings
- ✔ Industrial and commercial deployment
- ✔ Project-specific alternator and control options
- ✔ Service access and lifecycle support pathway



MAIN SPECIFICATIONS

SPECIFICATION	VALUE
Model rows	23
Power range	38 - 688 kVA prime
Engine family	Yuchai
Applications	Commercial, industrial, standby and remote power
Alternator	Configured by project model
Commercial note	Final configuration confirmed before quotation

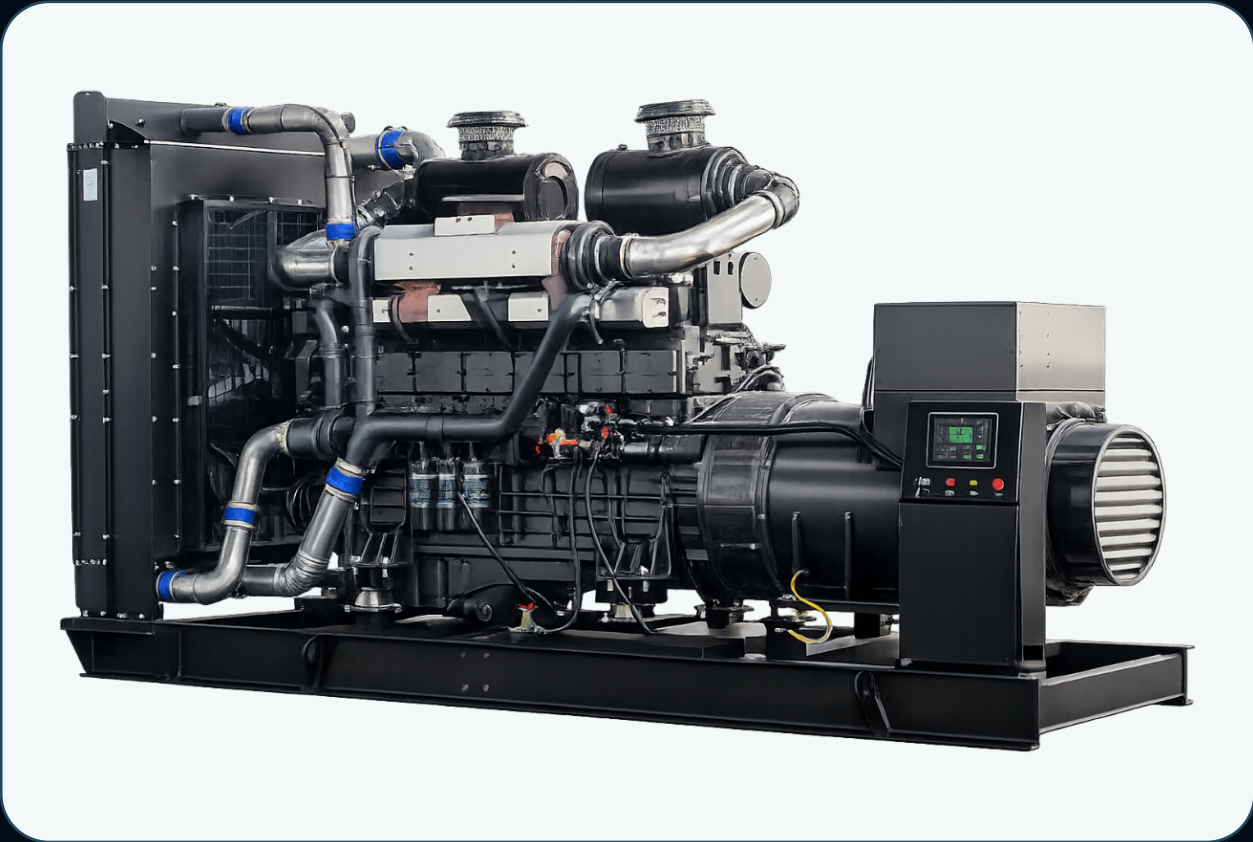
DIESEL GENERATION

Cummins Engine Gensets

Configured Cummins engine generator sets for reliable prime and standby power projects.

KEY FEATURES

- ✓ Prime and standby generator configurations
- ✓ Commercial and industrial reliability
- ✓ Project-specific ratings and enclosure options
- ✓ Supported by specification and procurement review



MAIN SPECIFICATIONS

SPECIFICATION	VALUE
Model rows	15
Power range	588 - 1375 kVA prime
Engine family	Cummins
Applications	Commercial, industrial and backup power
Alternator	Configured by project model
Commercial note	Final configuration confirmed before quotation

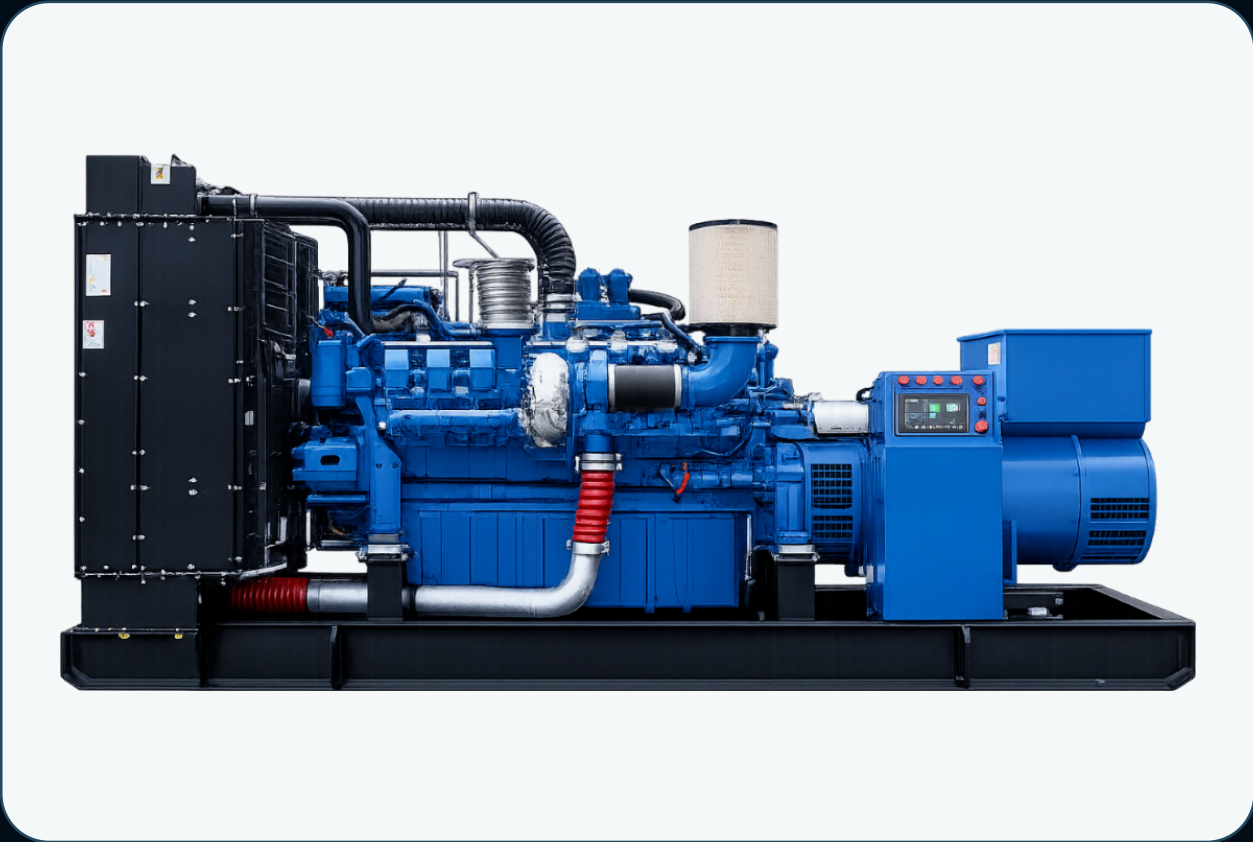
DIESEL GENERATION

MTU Engine Gensets

Higher-capacity generator set options for demanding infrastructure and industrial applications.

KEY FEATURES

- ✓ High-capacity generator configuration
- ✓ Industrial infrastructure applications
- ✓ Prime and standby model selection
- ✓ Technical review and delivery support



MAIN SPECIFICATIONS

SPECIFICATION	VALUE
Model rows	5
Power range	813 - 1375 kVA prime
Engine family	MTU
Applications	Industrial and infrastructure power
Alternator	Configured by project model
Commercial note	Final configuration confirmed before quotation

DIESEL GENERATION

Perkins / Weichai Generator Options

Additional generator product options for budget, availability and project-fit discussions.

KEY FEATURES

- ✓ Additional configured generator options
- ✓ Budget and availability pathway
- ✓ Commercial and industrial use cases
- ✓ Final brand selection matched to project need



MAIN SPECIFICATIONS

SPECIFICATION	VALUE
Brand options	Perkins / Weichai / other configured options
Use cases	Commercial, standby, industrial and remote power
Configuration	Open, silent, containerised or project-specific options
Selection	Matched to rating, lead time and service requirements
Commercial note	Final configuration confirmed before quotation

YUCHAI GENSETS

Yuchai Engine Gensets

Generator model matrix from the supplied master catalogue.

MODEL	PRIME	STANDBY	ENGINE	ALTERNATOR
SJYD-38PH	38	41	YC4D65-D20	-
SJYD-56PH	56	62	YC4D80Z-D20	-
SJYD-69PH	69	76	YC4D100Z-D20	-
SJYD-100PH	100	110	YC4D140-D33	-
SJYD-113PH	113	124	YC4D155-D33	-
SJYD-125PH	125	138	YC4D180-D33	-
SJYD-150PH	150	165	YC4A205-D32	-
SJYD-88PH	88	96	YC6B130Z-D20	-
SJYD-113PH (6-cyl)	113	124	YC6B160Z-D20	-
SJYD-150PH (6-cyl)	150	165	YC6B210L-D20	-



YUCHAI GENSETS

Yuchai Engine Gensets continued

Continued technical range.

MODEL	PRIME	STANDBY	ENGINE	ALTERNATOR
SJYD-188PH	188	206	YC6A245L-D20	-
SJYD-188PH (D32)	188	206	YC6A245-D32	-
SJYD-200PH	200	220	YC6A285-D32	-
SJYD-220PH	220	242	YC6A305-D32	-
SJYD-250PH	250	275	YC6MK360L-D20	-
SJYD-250PH (D30)	250	275	YC6MK360-D30	-
SJYD-313PH	313	344	YC6MK420L-D21	-
SJYD-313PH (D31)	313	344	YC6MK420-D31	-
SJYD-375PH	375	413	YC6MK500-D32	-
SJYD-500PH	500	550	YC6T660L-D21	-



YUCHAI GENSETS

Yuchai Engine Gensets continued

Continued technical range.

MODEL	PRIME	STANDBY	ENGINE	ALTERNATOR
SJYD-563PH	563	619	YC6TD780-D32	-
SJYD-625PH	625	688	YC6TD840-D32	-
SJYD-688PH	688	756	YC6TD940-D32	-



CUMMINS GENSETS

Cummins Engine Gensets

Generator model matrix from the supplied master catalogue.

MODEL	PRIME	STANDBY	ENGINE	ALTERNATOR
SJCS-588PH	588	688	KTAA19-G5	-
SJCS-750SH	-	750	KTAA19-G6A	-
SJCS-775PH	775	850	KT38-G	-
SJCS-875PH	875	963	KTA38-G1	-
SJCS-906PH	906	1000	KTA38-G2	-
SJCS-938PH	938	1038	KTA38-G2B	-
SJCS-1000PH	1000	1125	KTA38-G2A	-
SJCS-1125PH	1125	1250	KTA38-G4	-
SJCS-1375SH	-	1375	KTA38-G9	-
SJCS-1375PH	1375	1575	KTA50-G3	-



CUMMINS GENSETS

Cummins Engine Gensets continued

Continued technical range.

MODEL	PRIME	STANDBY	ENGINE	ALTERNATOR
SJCS-625PH	625	713	QSK19-G4	-
SJCS-688PH	688	750	QSK19-G5	-
SJCS-681PH	681	813	QSK19-G8	-
SJCS-1200PH	1200	1438	QSK38-G5	-
SJCS-1375PH (QSK)	1375	1550	QSK38-G4	-

MTU GENSETS

MTU Engine Gensets

Generator model matrix from the supplied master catalogue.

MODEL	PRIME	STANDBY	ENGINE	ALTERNATOR
SJMS-813PH	813	894	12V2000G45	-
SJMS-925PH	925	1018	12V2000G85	-
SJMS-1025PH	1025	1128	16V2000G45	-
SJMS-1150PH	1150	1265	16V2000G85	-
SJMS-1375PH	1375	1513	18V2000G85	-

ALTERNATIVE AND FIELD POWER

ALTERNATIVE & FIELD POWER PRODUCTS

Alternative generation and site-support products sit with field power: gas, methanol, biofuel, cold-chain generator systems and diesel lighting equipment.

01 GAS GENERATION

Gas generator sets for island power and peak shaving.

02 METHANOL POWER

Lower-emission generator option for prime or standby use.

03 BIOFUEL SYSTEMS

Renewable fuel pathway for remote generation.

04 FIELD SUPPORT

Cold-chain gensets and diesel light towers for logistics and worksites.

ALTERNATIVE AND FIELD POWER

GAS GENSET POWER GENERATION

Gas generator set solution for isolated island power plants, peak shaving and surplus power feed-in applications.

KEY FEATURES

- ✓ Easy maintenance
- ✓ Low noise operation
- ✓ Total energy utilisation efficiency $\geq 80\%$
- ✓ Suitable for power generation applications



MAIN SPECIFICATIONS

SPECIFICATION	VALUE
Product	Gas generator set
Efficiency	Total energy utilisation $\geq 80\%$
Applications	Island power, peak shaving, surplus power feed-in
Energy source	Gas
Format	Generator set
Source	MPMC company introduction 2026

ALTERNATIVE AND FIELD POWER

METHANOL GENSET LOWER EMISSION POWER

Methanol generator set with lower emissions, safe storage and cost-effective power generation characteristics.

KEY FEATURES

- ✓ Lower emission profile
- ✓ Safe storage and transportation
- ✓ Cost-effective fuel pathway
- ✓ 400 kVA / 280 kW rated power example



MAIN SPECIFICATIONS

SPECIFICATION	VALUE
Rated power	400 kVA / 280 kW
Voltage/frequency	600 V / 346 V, 60 Hz
Power factor	0.7 lagging
Engine model	6300XTA40-P4
Application	Prime / standby alternative fuel power
Source	MPMC company introduction 2026

ALTERNATIVE AND FIELD POWER

BIOFUEL GENSET **RENEWABLE FUEL** POWER

Biofuel generator solution for renewable and biodegradable fuel pathways across remote and backup power applications.

KEY FEATURES

- ✓ Clean emissions
- ✓ Renewable and biodegradable fuel pathway
- ✓ Cold-start ready and efficient combustion
- ✓ Safe and eco-friendly operation



MAIN SPECIFICATIONS

SPECIFICATION	VALUE
Fuel sources	Vegetable oils / animal fats / waste oils
Application	Remote and off-grid areas
Use cases	Plantations, construction, emergency and backup power
Combustion	Efficient combustion
Format	Generator set
Source	MPMC company introduction 2026

ALTERNATIVE AND FIELD POWER

COLD CHAIN GENSET **TRANSPORT** POWER

Cold chain generator set for refrigerated transport, railway cold chain carriage power and backup cold-chain logistics.

KEY FEATURES

- ✔ Intelligent fuel-saving
- ✔ High seismic resistance structural design
- ✔ Operating temperature -40 C to +50 C
- ✔ Designed for refrigerated container mounting



MAIN SPECIFICATIONS

SPECIFICATION	VALUE
Product	Cold chain genset
Temperature	-40 C to +50 C
Mounting	Pin-on / bottom mount / rear mount
Applications	Road, rail and port cold chain logistics
Use case	Backup cold-chain power
Source	MPMC company introduction 2026

ALTERNATIVE AND FIELD POWER

DIESEL LIGHT TOWERS **MANUAL /** HYDRAULIC

Diesel-powered lighting towers available in manual and hydraulic trailer formats for construction, event and emergency lighting.

KEY FEATURES

- ✔ Manual and hydraulic options
- ✔ LED or metal halide lamp options
- ✔ 7.2 m, 8.5 m and 9.0 m heights
- ✔ Trailer-mounted field deployment



MAIN SPECIFICATIONS

SPECIFICATION	VALUE
Height	7.2 m / 8.5 m / 9 m
Lamp	LED / metal halide
Formats	Manual / hydraulic / trailer
Power source	Diesel
Applications	Construction, events and field works
Source	MPMC company introduction 2026

SPECIALISED POWER PRODUCTS

MOBILE AND SPECIALISED POWER SYSTEMS

Flexible power products for temporary, remote, hybrid and industrial applications.

01 MOBILE POWER

Trailer-mounted and movable power station options.

02 PACKAGED PLANTS

Containerised systems for flexible project deployment.

03 HYBRID USE

Power support for fast charging and remote operations.

04 PROJECT FIT

Configured by load profile, site constraints and lifecycle support.

SPECIALISED POWER

SPECIALISED POWER PRODUCTS

Mobile power stations, packaged plants, hybrid options and supporting alternator products for flexible project deployment.

KEY FEATURES

- ✓ Mobile and containerised deployment models
- ✓ Methanol-powered fast charging pathway
- ✓ Alternator and packaged power options
- ✓ Designed for remote, industrial and temporary power use



MAIN SPECIFICATIONS

SPECIFICATION	VALUE
Product rows	7
Representative products	Mobile power station / packaged plant / methanol fast charger
Applications	Remote sites, construction, events, backup power and hybrid chargi...
Commercial note	Scope, rating and brand selection confirmed before quotation

SPECIALISED POWER

Specialised Power Product Range

All specialised power rows from the master catalogue.

PRODUCT	CATEGORY	KEY SPECIFICATIONS	APPLICATIONS
Methanol-Powered Fast Charger	Hybrid Charger	Integrated outdoor container / methanol genset + DC fast charge module / dual-gun DC / 95% efficiency / const...	Off-grid: islands, remote regions, highway service areas, transport hubs, gas/charging sta...
Mobile Power Station (trailer-mounted)	Mobile Power	Tow hook + 360 deg rotating turntable / pneumatic + hand-crank brake / explosion-proof lamp / workbench / do...	Construction sites, events, emergency response, temporary site power, film/TV production
Packaged Power Plant (movable containerised)	Containerised Power	Container-housed multi-genset plant / short construction period / flexible capacity / low personnel input / easy...	Middle East, South America, Africa rollouts. AU mining / remote-site / utility backup
Stamford (default - Cummins & MTU gensets)	Alternator	Class H insulation / resin-based material / 2/3 or 5/6 chorded winding / IP23 (customisable)	Default for Cummins & MTU gensets (Tabs 5 & 6)
Leroy Somer (optional - Perkins / Cummins)	Alternator	Brushless excitation / IP23 (customisable) / single or double-bearing / spacious terminal box	Optional for Perkins / Cummins gensets
Marathon (cost-tier option)	Alternator	Brushless excitation / solid-state or maintenance-free digital AVR / IP21 / optimised cooling / high motor-startin...	Cost-sensitive builds
EvoTec (default - Yuchai gensets)	Alternator	6.8-4,200 kW range / compact short-core design / suppresses resonance / high efficiency / anti-humidity / mild...	Default for Yuchai gensets (Tab 4). Suited to AU coastal / tropical / outback environments.



HYBRID SOLAR AND LIGHTING SYSTEMS

HYBRID SOLAR & LIGHTING SYSTEMS

Solar-led mobile and hybrid products are separated into their own stream: mobile PV plants, hybrid solar-genset stations and lighting tower platforms.

01 MOBILE SOLAR

Manual and automatic mobile PV systems.

02 HYBRID STATIONS

Solar, genset and BESS architecture for remote sites.

03 SOLAR LIGHTING

Solar battery towers with monitoring options.

04 X-MATRIX LIGHTING

Hybrid light tower systems for larger sites.

HYBRID SOLAR AND LIGHTING SYSTEMS

MOBILE SOLAR PLANT PV SOLUTION

Manual and automatic mobile solar plant system for flexible, green, plug-and-power deployment anywhere.

KEY FEATURES

- ✓ Modular design
- ✓ Flexible mobile deployment
- ✓ Plug and power anywhere
- ✓ Manual and automatic options



MAIN SPECIFICATIONS

SPECIFICATION	VALUE
Models	SPK-8A / SPK-10 / SPK-18A / SPK-20 / SPK-120 / SPK-240
Panel power	480 Wp / 510 Wp class
Format	Manual or automatic mobile solar plant
Applications	Remote power, events and temporary sites
Energy source	Solar PV
Source	MPMC company introduction 2026

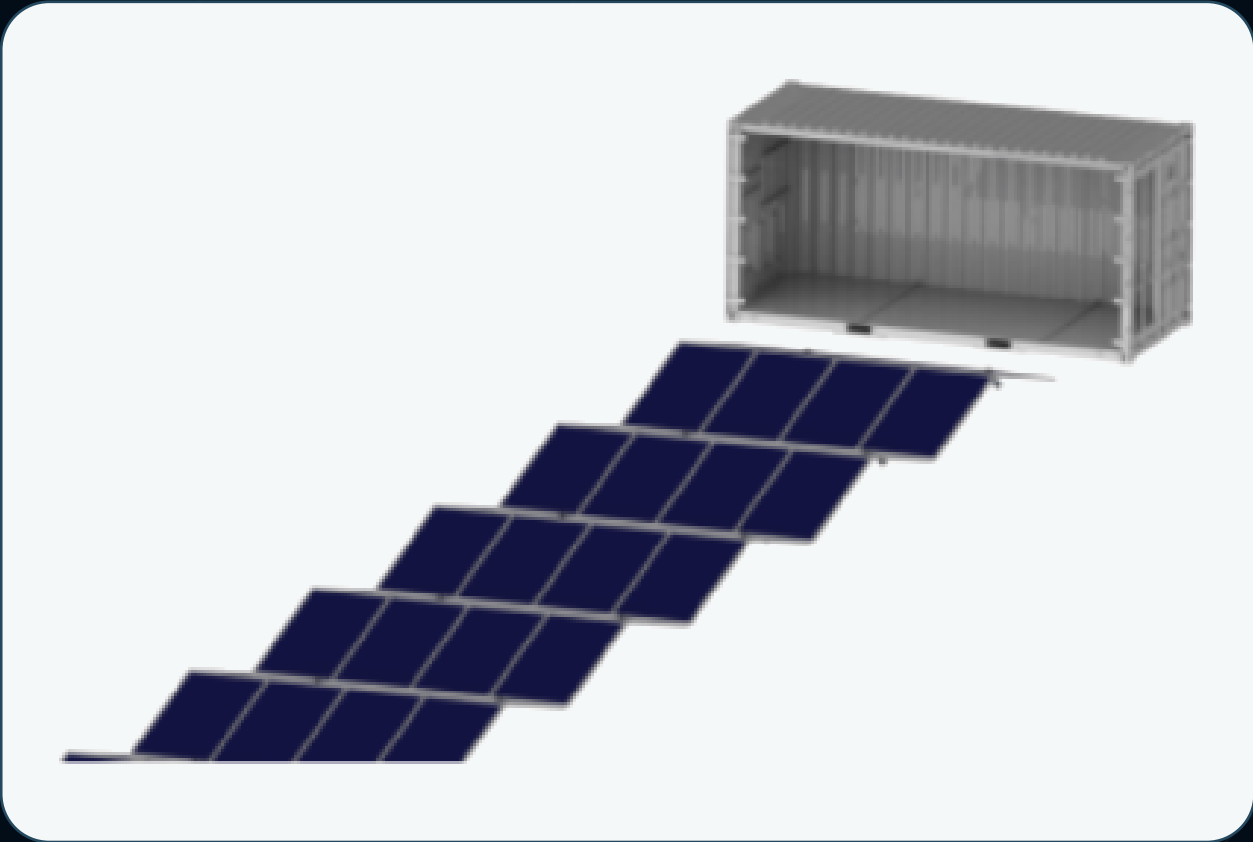
HYBRID SOLAR AND LIGHTING SYSTEMS

SPK-120 MOBILE SOLAR ARRAY

Containerised mobile solar array using a 20HQ carrier, foldable frame system and on-grid inverter for rapid remote deployment.

KEY FEATURES

- ✓ 115.92 kWp solar array capacity
- ✓ 20HQ container with foldable rail and rack system
- ✓ 60 min unfolding and 30 min folding time
- ✓ Movable, plug-and-play and expandable solar deployment



MAIN SPECIFICATIONS

SPECIFICATION	VALUE
Model	SPK-120
Solar array	115.92 kWp
Container	20HQ / 6058 x 2438 x 2896 mm
Modules	184 x 630 Wp Topcon/HJT
Inverter	110 kW on-grid
System area	550.1 m2 unfolded

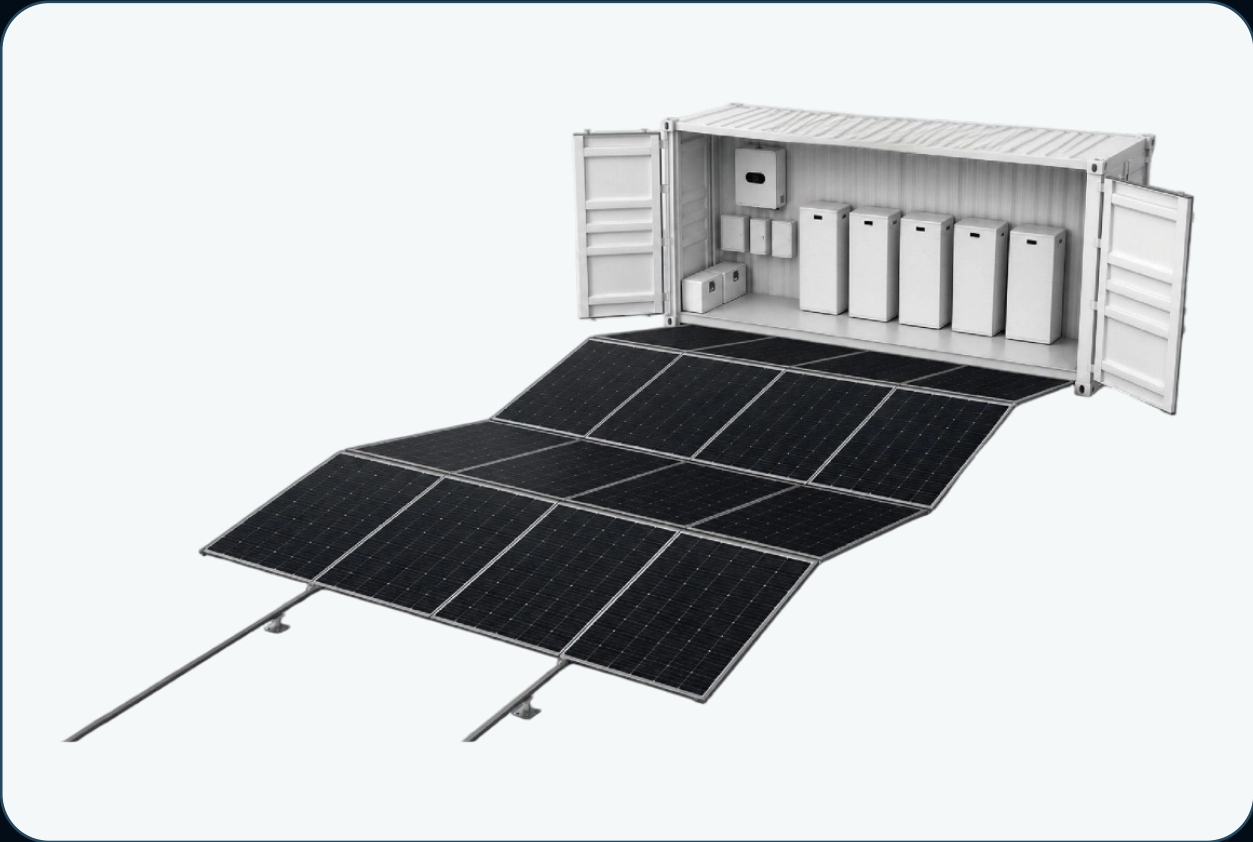
HYBRID SOLAR AND LIGHTING SYSTEMS

HYBRID POWER STATIONS **SOLAR +**
GENSET + BESS

Hybrid power station platform combining solar, generator and BESS for flexible off-grid and backup power operation.

KEY FEATURES

- ✓ Solar + genset + BESS architecture
- ✓ Slide-out PV option
- ✓ Smart control integration
- ✓ Expandable and highly mobile



MAIN SPECIFICATIONS

SPECIFICATION	VALUE
Models	GSB-10 through GSB-60P
Voltage	380-415 Vac class
Architecture	Solar + genset + BESS
Engine options	Perkins / Kubota / Yanmar options
Applications	Off-grid, rental and remote power
Source	MPMC company introduction 2026

HYBRID SOLAR AND LIGHTING SYSTEMS

SOLAR LIGHTING TOWER **SOLAR +**
BATTERY

Solar and battery lighting tower range with 4G + CCTV options and unattended operation capability.

KEY FEATURES

- ✓ Solar and battery operation
- ✓ 4G + CCTV unattended system option
- ✓ Manual and hydraulic mast options
- ✓ Large-area lighting coverage



MAIN SPECIFICATIONS

SPECIFICATION	VALUE
Models	HSL-1000A to HSL-3840B
Coverage	12,000 m2 to 24,100 m2 class
Battery	Gel / LFP options
Mast	7.2 m / 7.5 m / 9.0 m options
Use case	Events, construction and remote lighting
Source	MPMC company introduction 2026

HYBRID SOLAR AND LIGHTING SYSTEMS

X-MATRIX HYBRID LIGHT TOWER

Hybrid light tower system using one diesel-battery main tower with multiple battery sub-towers for scalable lighting coverage.

KEY FEATURES

- ✓ One main diesel-battery light tower
- ✓ Multiple battery sub light towers
- ✓ Adaptive brightness control
- ✓ Light-controlled illumination standard



MAIN SPECIFICATIONS

SPECIFICATION	VALUE
Main model	HBL-600D-M
Sub model	HBL-600D-S
Coverage	18,200 m2 class
System	Diesel + battery / battery sub towers
Use case	Large events and construction sites
Source	MPMC company introduction 2026

COMMERCIAL SOLAR

COMMERCIAL SOLAR PV REFERENCE

Smart solar products, rooftop PV components and commercial project reference notes for Australian deployment.

01 ROOFTOP PV

Commercial solar components and reference system

02 INVERTERS

Inverter and electrical balance-of-system components.

03 STORAGE READY

Integration pathway for BESS and smart energy controls.

04 COMPLIANCE

Australian standards, warranty and project documentation notes.

COMMERCIAL SOLAR

Commercial Solar PV Components

Component, note and compliance rows from the master catalogue.

LINE ITEM	DESCRIPTION	DETAIL	NOTES
System Size (reference)	Commercial rooftop PV - Adelaide Marble Specialists case study	99.84 kW	Indicative reference only. Final pricing always site-specific.
Solar Modules	Jinko JKM270PP-60-A polycrystalline 255-270 W	384 modules	10-yr product warranty, 25-yr linear performance warranty. CEC-approved.
Inverters	SMA Sunny Tripower STP 25000TL (25 kW)	2 units	Max efficiency 98.4%. AS 4777 compliant. 5-yr std warranty (extendable to 20).
Inverters	SMA Sunny Tripower STP 20000TL (20 kW)	2 units	Max efficiency 98.4%. AS 4777 compliant.
Mounting System	Clenergy PV-ezRack SolarRoof - anodised aluminium	Full set for 384 modules	Suits tin roof flush-mount, 15 deg pitch. TÜV-certified. 10-yr warranty.
System Installation Cost (ex GST)	EPC scope: design + supply + install + grid-connection paperwork + safety inspection	Per AMS reference proposal	Pricing as per AMS quote 30/06/2015. Index to current market before re-quoting.
STC Rebate (indicative)	Small-scale Technology Certificate offset	Subject to current STC market price and zone multiplier	Subject to current STC market price and zone multiplier.
Nett Installed Cost (ex GST)	After STC offset	-	Final figure subject to current STC pricing and site survey.

COMMERCIAL SOLAR

Commercial Solar PV Components continued

Continued technical range.

LINE ITEM	DESCRIPTION	DETAIL	NOTES
Expected Annual Yield	Per PVsyst modelling	approx. 120 MWh / yr (first-year)	Subject to local irradiance, shading, panel orientation.
Warranties	Panels: 10yr product / 25yr performance / Inverter: 5yr std (20yr ext available) / Workmanship: 5-7yr / Mo...	-	-
Standards Compliance	AS 3000 / AS 3008.1.2 / AS 4777 / AS 5033 / AS 1170 (Wind loading)	-	All installations by CEC-accredited designers/installers.
Payment Schedule	35% on Quotation Acceptance + design/engineering / 25% on delivery / 25% on install commencement / ...	-	Per Shakra Energy standard EPC terms & conditions.

PARTNER WITH US

FROM PRODUCT RANGE TO PROJECT DELIVERY

Shakra Energy brings Australian development and delivery experience together with Shenglong New Energy manufacturing capability.



01 DESIGN

Project assessment, specification and solution mapping.

02 SUPPLY

Product sourcing, technical selection and procurement.

03 DELIVER

Construction support and project delivery coordination.

04 OPERATE

Monitoring, maintenance and lifecycle support.