



Pinnacle Welding and Safety founded in 2013.

The fastest growing welding and safety manufacture company in South Africa. Pinnacle provides overall welding, safety and power products, solutions, services, training, and technical support.

Headquartered in Johannesburg and branches in Durban and Cape Town as well as agencies throughout all main cities in South Africa and SADC. You can be sure to find us.

Pinnacle acquired Chisa Welding electrodes manufacturing plant in 2017, and has workwear factories in Durban, Johannesburg and Eswatini.

The Power product range consists of diesel generators, petrol generators and solar products.

The Welding and Safety product brands include PINNACLE, CHISA, RILAND and which combines superior quality and best values, most of the products conform to SABS, ISO9001, CE and EN Standards.

Pinnacle products are widely used in engineering, mining, ship building, agriculture, automotive, construction, petrochemical, DIY chain, food industries and many more.

Our Vision

To provide comprehensive integrated welding, safety & power products and turnkey solutions to all industries.

Your ONE STOP Welding, Safety & Power Company













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PINNACLE SILENT INDUSTRIAL DIESEL GENERATOR

FEATURES

- Super Silent Canopy that is made to withstand the outdoor environment.
- ·High-Quality locks on all doors.
- •Reliable in-line 4 & 6 cylinder Non-Turbo & Turbo SDEC diesel engines.
- Easy to use DeepSea 6120 Mk III Controllers with automatic/manual start.
- ·High-temperature and oil pressure sensors to assist in protecting the engine against damage.
- ·Maintenance Free batteries and trickle charger included.
- ·All generators undergo pre-delivery testing and inspection prior to delivery.
- •One Year / 1000 hour warranty for peace of mind.







CANOPY

- Weather resistant and lined with super nosie reducing foam.
- Powder paint is applied to all metal canopy components.
- Panel window to view controller.
- · Attachments for lifting and moving.
- •External emergency stop push button.
- Ample space inside for easy maintenance on engine.

CHASSIS

- •The generators are mounted together onto a sturdy fabricated steel base frame.
- High-strength steel chassis and anti-vibration pads.
- •Fuel tank mounted on top of chassis.
- ·Digital fuel gauge.
- ·Powder painted base frame.
- Generators can be lifted or moved around by the base frame.

CONTROLLER

- Automatically transfers between mains (utility) and generator for convenience.
- •User-friendly set-up and button layout for ease of use.
- •Fuel level alarm
- · Digital fuel gauge.
- Multiple parameters are monitored & displayed simultaneously for full visibility.
- •The module can be configured to suit a wide range of applications for user flexibility
- PLC editor allows user configurable functions to meet user specific application requirements

15kVA | 20kVA | 30kVA Silent Industrial Diesel Generators

Three-Phase Industrial Diesel Generators







Model		TD15SD	TD20SD	TD30SD
Prime Power	kVA	15kVA	20kVA	30kVA
Standby Power	kVA	17kVA	22kVA	33kVA
Rated Voltage Line to Line	V	400V/230V	400V/230V	400V/230V
Rated Current	A	25A	25A	38A
Max Sound Level - dB(@7m)	dB	73dB	73dB	73dB
Engine		SDEC	SDEC	SDEC
Model		4Z2.3-G11	4Z2.7-G11	4Z3.2-G11
Engine Type		In-line, 4 strokes, water-cooled	In-line, 4 strokes, water-cooled	In-line, 4 strokes, water-cooled
Injection Pump		Kangda	Kangda	Kangda
No. Cylinders		4 In-Line	4 In-Line	4 In-Line
Displacement	L	2.3	2.7	3.2
Bore* Size	mm	85 x 105	95 x 105	98 x 105
Compression Ratio		18:01	18:01	18:01
Rated Speed	r/mm	1500	1500	1500
Rated Net Power(With Fan)	Kw	16	22	32
Governor Type		Mechanical	Mechanical	Electrical
Start Motor	V	12	12	12
Exhaust System				
Exhaust Gas Flow	m3/min	7.2	8.9	10.6
Exhaust Gas Temperature	°C	480	480	550
Max. Pressure	kPa	10	10	10
Aspiration System	Ki d	10	10	10
Max Inlet Pressure	kPa	4	4	4
Combustion Volume	m3/min	/	/	/
Air Flow	m3/min	2.3	2.3	3.32
Fuel System	1113/111111	2.3	2.3	5.52
100% Load (Prime Power)	L/h	4.68	4.68	7.11
75% Load (Prime Power)	L/h	3.6	3.6	5.14
50% Load (Prime Power)	L/II	2.6		3.65
Fuel Tank Capacity	L/11	2.0 55	2.6	55
	L	55	55	55
Lubrication System		10	10	10
Oil Capacity	L	10	10	10
Lubrication Method		Fully Forced Pressure Feed Type	Fully Forced Pressure Feed Type	Fully Forced Pressure Feed Type
Oil Pump		Gear Type Driven By Camshaft	Gear Type Driven By Camshaft	Gear Type Driven By Camshaft
Cooling System				
Water Capacity (Engine Only)	L	2.3	2.7	2.7
Thermostat Operation Range	°C	72-82	72-82	72-82
Max Water Temperature	°C	104	104	104
Alternator		Technic	Technic	Technic
Model		TP160D	TP184ES	TP184G
Phase		3	3	3
Voltage	V	400V/230V	400V/230V	400V/230V
Wiring Type		3 Phase - 4 Wire, Y Type	3 Phase - 4 Wire, Y Type	3 Phase -4 Wire, Y Type
Bearing		1	1	1
Power Factor		0.8	0.8	0.8
Frequency	Hz	50	50	50
Prime Power	kW	12.8	16	16
Exciter Type		Brushless, Selfexcitation	Brushless, Selfexcitation	Brushless, Selfexcitation
Voltage Regulation	%	±0.5	±0.5	±0.5
Protection Grade	IP	IP23	IP23	IP23
Insulation Grade		H/H	H/H	H/H
Altitude	m	≤1000	≤1000	≤1000
Controller		DeepSea DSE6120	DeepSea DSE6120	DeepSea DSE6120

Protective Functions:

-Low Oil Pressure

-Voltage Regulator Freq. Regulator

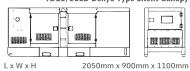
-High Water Temperature

-Emergency Stop

-High/Low Voltage

- -Start Failure
- -High Engine Temperature and Over-speed
- * Specification subject to change without notice.
- * All rating at Sea Level, 25°C ambient temperature.

TD15/20SD Denyo Type Silent Canopy





3

50kVA | 60kVA | 80kVA Silent Industrial Diesel Generators

Three-Phase Industrial Diesel Generators







Model		TD50SZ	TD60SD	TD80SD
Prime Power	kVA	50kVA	60kVA	80kVA
Standby Power	kVA	55kVA	66kVA	88kVA
Rated Voltage Line to Line	V	400V/230V	400V/230V	400V/230V
Rated Current	A	76A	86A	115A
Max Sound Level - dB(@7m)	dB	73dB	73dB	73dB
Engine		SDEC	SDEC	SDEC
Model		4Z3.5 G21	4ZT4.1-G21	4ZTAA4.1-G31
Engine Type		In-line, 4 strokes, water-cooled	In-line, 4 strokes, water-cooled, turbo	In-line, 4 strokes, water-cooled, turbo
Injection Pump		Kangda	Kangda	Kangda
No. Cylinders		4 In-Line	4 In-Line	4 In-Line
Displacement	L	3.5	4.1	4.1
Bore* Size	mm	105 x 115	105 x 118	105 x 118
Compression Ratio		18:01	18:01	18:01
Rated Speed	r/mm	1500	1500	1500
Rated Net Power(With Fan)	Kw	49	60	74
Governor Type		Electrical	Electrical	Electrical
Start Motor	V	12	12	12
Exhaust System			·	
Exhaust Gas Flow	m3/min	14.1	13.6	24.6
Exhaust Gas Temperature	°C	480	550	550
Max. Pressure	kPa	10	10	10
Aspiration System				
Max Inlet Pressure	kPa	4	4	4
Combustion Volume	m3/min	/	/	/
Air Flow	m3/min	5.2	6.31	7.7
Fuel System				
100% Load (Prime Power)	L/h	10.23	12.82	18.7
75% Load (Prime Power)	L/h	7.8	9.65	14.6
50% Load (Prime Power)	L/h	5.51	6.7	10
Fuel Tank Capacity	L	87	87	120
Lubrication System				
Oil Capacity	L	10	10	10
Lubrication Method		Fully Forced Pressure Feed Type	Fully Forced Pressure Feed Type	Fully Forced Pressure Feed Type
Oil Pump		Gear Type Driven By Camshaft	Gear Type Driven By Camshaft	Gear Type Driven By Camshaft
Cooling System				
Water Capacity (Engine Only)	L	3.5	4.1	4.1
Thermostat Operation Range	°C	72-82	72-82	72-82
Max Water Temperature	°C	104	104	104
Alternator		Technic	Technic	Technic
Model		TP224D	TP224E	TP224G
Phase		3	3	3
Voltage	V	400V/230V	400V/230V	400V/230V
Wiring Type		3 Phase - 4 Wire, Y Type	3 Phase - 4 Wire, Y Type	3 Phase - 4 Wire, Y Type
Bearing		1	1	1
Power Factor		0.8	0.8	0.8
Frequency	Hz	50	50	50
Prime Power	kW	40	48	68
Exciter Type		Brushless, Selfexcitation	Brushless, Selfexcitation	Brushless, Selfexcitation
Voltage Regulation	%	±0.5	±0.5	±0.5
Protection Grade	IP	IP23	IP23	IP23
Insulation Grade		H/H	H/H	H/H
Altitude	m	≤1000	≤1000	≤1000
Controller	***	DeepSea DSE6120	DeepSea DSE6120	DeepSea DSE6120

Protective Functions:

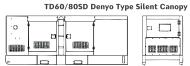
- -Low Oil Pressure
- -Voltage Regulator Freq. Regulator
- High Water Temperature - High/Low Voltage

- -Emergency Stop -Start Failure
- High Engine Temperature and Over-speed
- * Specification subject to change without notice.
- * All rating at Sea Level, 25°C ambient temperature.

TD50SZ Denyo Type Silent Canopy



LxWxH 2200mm x 950mm x 1200mm



LxWxH 2450mm x 1000mm x 1250mm

100kVA | 150kVA Silent Industrial Diesel Generators

Three-Phase Industrial Diesel Generators





Model		TD100SD	TD150SD
Prime Power	kVA	100kVA	150kVA
Standby Power	kVA	110kVA	165kVA
Rated Voltage Line to Line	V	400V/230V	400V/230V
Rated Current	A	152A	288A
Max Sound Level -dB(@7m)	dB	73dB	73dB
Engine		SDEC	SDEC
Model		4HTAA4.3 G21	6HTAA6.5-G22
Engine Type		In-line, 4 strokes, water-cooled, inter-cooled, turbo	In-line, 6 strokes, water-cooled, inter-cooled, turbo
Injection Pump		Longkou in-line "P" Type	Longkou in-line "P" Type
No. Cylinders		4 In-Line	6 In-Line
Displacement	L	4.3	6.5
Bore* Size	mm	105 x 124	105 x 124
Compression Ratio		16:01	16:01
Rated Speed	r/mm	1500	1500
Rated Net Power(With Fan)	Kw	95	140
Governor Type	TWV	Electrical	Electrical
Start Motor	V	24	24
	V	24	24
Exhaust System	2 /i.r	1/1	24./
Exhaust Gas Flow	m3/min	16.1	24.6
Exhaust Gas Temperature	°C	600	600
Max. Pressure	kPa	8	8
Aspiration System			
Max Inlet Pressure	kPa	6	6
Combustion Volume	m3/min	/	/
Air Flow	m3/min	6.8	10.5
Fuel System			
100% Load (Prime Power)	L/h	23	33.1
75% Load (Prime Power)	L/h	17.1	25.2
50% Load (Prime Power)	L/h	11.8	17.6
Fuel Tank Capacity	L	185	224
Lubrication System			
Oil Capacity	L	13	17.6
Lubrication Method		Fully Forced Pressure Feed Type	Fully Forced Pressure Feed Type
Oil Pump		Gear Type Driven By Camshaft	Gear Type Driven By Camshaft
Cooling System		.,	
Water Capacity (Engine Only)	L	6.8	9.6
Thermostat Operation Range	°C	82-95	82-95
Max Water Temperature	°C	104	104
Alternator		Technic	Technic
Model		TP274C	TP274F/S
Phase		3	3
Voltage	V	400V/230V	400V/230V
Wiring Type	V	3 Phase - 4 Wire, Y Type	3 Phase - 4 Wire, Y Type
Bearing 1990		1	1
-			
Power Factor		0.8	0.8
Frequency	Hz	50	50
Prime Power	kW	12.8	120
Exciter Type		Brushless, Selfexcitation	Brushless, Selfexcitation
Voltage Regulation	%	±0.5	±0.5
Protection Grade	IP	IP23	IP23
Insulation Grade		H/H	H/H
Altitude	m	≤1000	≤1000
Controller		DeepSea DSE6120	DeepSea DSE6120

Protective Functions:

-Low Oil Pressure

- Voltage Regulator Freq. Regulator

-High Water Temperature

-Emergency Stop
-Start Failure

- -High/Low Voltage
- -High Engine Temperature and Over-speed
- $\ensuremath{^{\star}}$ Specification subject to change without notice.
- * All rating at Sea Level, 25°C ambient temperature.

TD100SD Denyo Type Silent Canopy





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200kVA | 250kVA Silent Industrial Diesel Generators

Three-Phase Industrial Diesel Generators



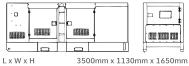


Model		TD200SC	TD250SC
Prime Power	kVA	200kVA	250kVA
Standby Power	kVA	220kVA	275kVA
Rated Voltage Line to Line	V	400V/230V	400V/230V
Rated Current	A	304A	388A
Max Sound Level - dB(@7m)	dB	73dB	73dB
Engine		SDEC	SDEC
Model		6HTAA4.3 G21	6DTAA8.9 G23
Engine Type		In-line, 4 strokes, water-cooled, inter-cooled, turbo	In-line, 4 strokes, water-cooled, inter-cooled, turbo
Injection Pump		Longkou in-line "P" Type	Longkou
No. Cylinders		6 In-Line	6 In-Line
Displacement	L	8.82	8.82
Bore* Size	mm	114 x 144	114 x 144
Compression Ratio		18:01	16:01
Rated Speed	r/mm	1500	1500
Rated Net Power(With Fan)	Kw	185	200
Governor Type		Electrical	Electrical
Start Motor	V	24	24
Exhaust System			
Exhaust Gas Flow	m3/min	35.9	31.6
Exhaust Gas Temperature	°C	600	600
Max. Pressure	kPa	6	10
Aspiration System			
Max Inlet Pressure	kPa	6	3
Combustion Volume	m3/min	16.4	/
Air Flow	m3/min	10	17.7
Fuel System		=-	
100% Load (Prime Power)	L/h	44.1	55.1
75% Load (Prime Power)	L/h	32.8	40.7
50% Load (Prime Power)	L/h	22.8	27.7
Fuel Tank Capacity	L	285	300
Lubrication System			
Oil Capacity	L	19	25
Lubrication Method		/	Fully Forced Pressure Feed Type
Oil Pump		/	Gear Type Driven By Camshaft
Cooling System			71 7
Water Capacity (Engine Only)	L	12	12.1
Thermostat Operation Range	°C	82-95	82-93
Max Water Temperature	°C	104	104
Alternator	3	Technic	Technic
Model		TP274H	TP274K
Phase		3	3
Voltage	V	400V/230V	400V/230V
Wiring Type		3 Phase - 4 Wire, Y Type	3 Phase - 4 Wire, Y Type
Bearing		1	1
Power Factor		0.8	0.8
Frequency	Hz	160	50
Prime Power	kW	12.8	200
Exciter Type	KVV	Brushless, Selfexcitation	Brushless, Selfexcitation
Voltage Regulation	%	±0.5	±0.5
Protection Grade	IP	IP23	IP23
Insulation Grade	15	H/H	H/H
Altitude	m	⊓/⊓ ≤1000	=====================================
Controller		DeepSea DSE6120	DeepSea DSE6120

Protective Functions:

- -Low Oil Pressure
- -High Water Temperature
- -High/Low Voltage
- -High Engine Temperature and Over-speed
- * Specification subject to change without notice. * All rating at Sea Level, 25°C ambient temperature.
- Voltage Regulator Freq. Regulator
- Emergency Stop
- Start Failure

TD200SC Denyo Type Silent Canopy







LxWxH 3500mm x 1130mm x 1650mm

TD16S

16kVA Silent Diesel Generator

Single - Phase Silent Diesel Generator

Pinnacle TD16S is a Silent Diesel Generator that is the perfect match for your small and growing business. This silent generator will keep the nosie level down around the office. Our generators, powered by SDEC engines, offer efficient and dependable solutions for a wide range of power generation needs across various industries and applications.

Protective Features:

High Engine Temperature and Over speed Voltage Regulator Frequency Regulation Low Oil Indicator | High Water Temperature High/Low Voltage | Emergency Stop | Start Failure







Engine		SDEC
Model		4Z2.7G11
Engine Type	In-line, 4	strokes, water-cooled
Injection Pump		Kangda
No. Cylinders		4 In-Line
Displacement	L	2,7
Bore* Size	mm	90 x 105
Compression Ratio		18:01
Rated Speed	r/mm	1500
Rated Net Power(With Fan)	Kw	16
Governor Type		Electrical
Start Motor	V	12

Exhaust System		
Exhaust Gas Flow	m3/min	8.9
Exhaust Gas Temperature	°C	480
Max. Pressure	kPa	10

Aspiration System		
Max Inlet Pressure	kPa	4
Combustion Volume	m3/min	/
Air Flow	m3/min	2.3

Fuel System		
100% Load (Prime Power)	L/h	4.68
75% Load (Prime Power)	L/h	3.6
50% Load (Prime Power)	L/h	2.6
Fuel Tank Capacity	L	55

^{*} Specification subject to change without notice.



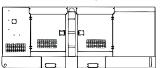
Lubrication System		
Oil Capacity	L	10
Lubrication Method	Fully For	ced Pressure Feed Type
Oil Pump	Gear Ty	oe Driven By Camshaft

Cooling System		
Water Capacity (Engine Only)	L	2.7
Thermostat Operation Range	°C	72-82
Max Water Temperature	°C	104

Alternator			
Model	Technic	TP184ES	
Phase		1	
Voltage	V	230V	
Wiring Type	1 Phase - 3 Lines, Series		
Bearing		1	
Power Factor		1	
Frequency	Hz	50	
Prime Power	kW	16	
Exciter Type	Brush-	less, Self-excitation	
Voltage Regulation	%	±0.5	
Protection Grade		IP23	
Insulation Grade		H/H	
Altitude	m	≤1000	

Controller	DeepSea DSE6120
Protective Functions:	
- Low Oil Pressure	- Voltage Regulator Freq. Regulator
- High Water Temperature	- Emergency Stop
- High/Low Voltage	- Start Failure
- High Engine Temperature and Over-speed	

Denyo Type Silent Canopy



LxWxH

2050mm x 900mm x 1100mm

^{*} All rating at Sea Level, 25°C ambient temperature.

TD8500S

6.5kVA Silent Portable Diesel Generator

Single - Phase Portable Diesel Generator

Pinnacle TD8500S is a Portable Silent Diesel Generator that is the perfect match for your small and growing business. This silent generator will keep the nosie level down around the office. Our generators, powered by TAIYU engines, offer efficient and dependable solutions for a wide range of power generation needs across various industries and applications.

Features:

Constant Voltage AVR Hanjing 3 in 1 Digital Controller 15L Fuel Tank, 6 Hours @ 75% Load Remote Start Possibility (ATS Optional) Electric Start | DC 12V 8.3A Charge Facility | Single Phase Output



Model		TD8500S
Prime Power	kVA	6kVA
Standby Power	kVA	6.5kVA
Rated Voltage Line to Line	V	230V
Rated Current	А	30A
Max Sound Level - dB(@7m)		76dB

Engine		TAIYU
Model		192F - Air Cooled
Engine Type		e Cylinder: Vertical Direct Injection
AutoDecompression		Yes
No. Cylinders		1
Displacement	L	0.498
Low Pressure Alert	No	
Low Fuel CutOut	No	
Rated Speed	r/mm 3000	
Compression ratio		19:01
Rated Net Power(With Fan)	Kw	6.5
Start Motor	V	12 Electrical starter

Lubrication System			
Oil		15W40	
	•	' 	
Fuel System			
100% Load (Prime Power)	L/h	2.9	
75% Load (Prime Power)	L/h	2.2	
50% Load (Prime Power)	L/h	1.5	
Fuel Tank Capacity	L	15	

Alternator		
Phase		1
Voltage	V	230V
Power Factor		1
Frequency	Hz	50
Prime Power	kW	6.5
Auto Voltage Regulation		Constant Voltage AVR

Controller	
Model	Hanjing 3 in 1 Digital Controller

- * Specification subject to change without notice.
- * Measurements based on ISO8528-1.
- * All rating at Sea Level, 25°C ambient temperature.
 * Our 3000RPM Diesel Generators are not suitable for use with most inverter brands.

ZH7500E

6.5kVA Standby Petrol Generator

Single-Phase Portable Petrol Generator

Pinnacle ZH7500E is a Standby Petrol Generator. Made for those working in a off-site location that needs electricity for your remote office or for the workers needing power for air-compressors, welding machines, large grinders and more, this is the generator for you.

Features:

Powerful commercial level ZH 4stroke gasoline engine with low vibration, low oil consumption, low emission.

Continuously supplying clean & stable current.

100% copper winding.

Automatic low oil shutdown system to protec engine.

Equipped with AVR (Automatic Voltage Regulator).

Overload circuit breaker to protect generator and appliances.

With full CE certifications, with Euro V



Model		ZH7500E
Prime Power	kVA	6kVA
Standby Power	kVA	6.5kVA
Rated Voltage Line to Line	V	230V
Rated Current	А	27A
Max Sound Level - dB(@7m)		97dB

Engine		OHV	
Model		ZH190F	
Engine Type		Single Cylinder 4-Stroke	
Auto-Decompression		Yes	
No. Cylinders		1	
Displacement	CC	420	
Low Pressure Alert	No		
Low Fuel CutOut	No		
Rated Speed	r/mm	3000	
Max Output	HP	15	
Rated Net Power	Kw	6.5	
Start Motor	V	Recoil / 12 Electrical	

Lubrication System			
Oil		SAE 15W40	
Fuel System			
100% Load (Prime Power)	L/h	2.9	
75% Load (Prime Power)	L/h	2.2	
50% Load (Prime Power)	L/h	1.5	
Fuel Tank Capacity	L	25	

Alternator		
Phase		1
Voltage	V	230V
Winding		Copper
Frequency	Hz	50
Prime Power	kW	6.5
Auto Voltage Regulation		Constant Voltage AVR

Controller	
Model	None

- * Specification subject to change without notice...
- * All rating at Sea Level, 25°C ambient temperature
- * Our 3000RPM Diesel Generators are not suitable for use with most inverter brands.

ATS SWITCHES

An ATS is a device that automatically transfers power from one source to another when it detects a failure or interruption in the primary power source.

In the context of a generator, an ATS is often used to switch between the main power grid and a backup generator during power outages. When the ATS detects a loss of power from the main grid, it triggers the generator to start and then switches the electrical load from the grid to the generator. Once the grid power is restored, the ATS switches the load back to the grid and shuts down the generator.

This automatic switching ensures a seamless transition between power sources, providing uninterrupted electricity supply to critical systems or appliances during outages. It's commonly used in commercial buildings, data centers, hospitals, and other facilities where continuous power is essential.



63 / 100Amp ATS Switches

Single Phase Automatic Transfer Switches

Thermal Current 1PH	63A	100A	
Rated Insulation Voltage	750V		
Rated Impulse-Withstand Voltage	81	ΚV	
Rated Voltage of the Switch Copper	AC 440V		
Rated Working Current (AC33A)	63Amp	100Amp	
Rated Connection Capability	10le		
Rated Breaking Capability	8le		
Rated Conditional Short-Circuit Current	100KA		
Rated Short-Time Withstand Current	7KA	9KA	
Electric Control Unit Working Voltage	AC 220V		

100 / 160 / 250 / 400 / 630Amp ATS Switches

Three Phase Automatic Transfer Switches

Thermal Current 3PH	100A	160A	250A	400A	630A
Rated Insulation Voltage		750V		100	V00
Rated Impulse-Withstand Voltage		8KV		12	KV
Rated Voltage of the Switch Copper			AC 440V		
Rated Working Current (AC33A)	100Amp	160Amp	250Amp	400Amp	630Amp
Rated Connection Capability		'	10le	•	•
Rated Breaking Capability			8le		
Rated Conditional Short-Circuit Current		100KA		70	IKA
Rated Short-Time Withstand Current	9KA	13	KA	26	KA
Electric Control Unit Working Voltage			AC 380V	•	



Hybrid Inverter

SUN-5/8K-SG02LP1-AU-AM2





Max. 16 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel

250 Max. charging/discharging current of 250A

6 time periods for battery charging/discharging

Support storing energy from diesel generator

Model	SUN-5K-SG02 LP1-AU-AM2	SUN-8K-SG02 LP1-AU-AM2		
Battery Input Data				
Battery Type	Lead-acid or Li	ithium-ion		
Battery Voltage Range (V)	40-60	0		
Max. Charging Current (A)	120	190		
Max. Discharging Current (A)	120	190		
External Temperature Sensor	Yes			
Charging Curve	3 Stages / Equ	ualization		
Charging Strategy for Li-Ion Battery	Self-adaption			
PV String Input Data				
Max. DC Input Power (W)	7500	12000		
Rated PV Input Voltage (V)	370 (125-			
Start-up Voltage (V)	125			
MPPT Voltage Range (V)	150-4	25		
Full Load DC Voltage Range (V)	300-425	200-425		
PV Input Current (A)	20+20	26+26		
Max. PV I _{SC} (A)	44+44	44+44		
No.of MPP Trackers		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
	2+2	2+2		
No.of Strings per MPP Tracker	Z+Z	Z+Z		
AC Output Data	5000	2000		
Rated AC Output Active Power (W)	5000	8000		
Max AC Output Active Power (W)	5000	8000		
AC Output Rated Current (A)	22.8/21.8	36.4/34.8		
Max. AC Output Current (A)	22.8/21.8	36.4/34.8		
Max. Continuous AC Passthrough (A)	35	50		
Peak Power (off grid)	2 time of rated p	power, 10 S		
Power Factor Adjustment Range	0.8 leading to 0.8 lagging			
Rated Input/Output Voltage/Range(V)	220/230 0.85Un-1.1Un			
Rated Input/Output Grid Frequency/Range	50Hz/45Hz-55Hz 60Hz/55Hz-65Hz			
Grid Connection Form	L+N+PE			
Total Harmonics Current Distortion (THDi)	<3% (of nominal power)			
DC Current Injection	<0.5%	In		
Efficiency				
Max. Efficiency	97.60	%		
Euro Efficiency	97.00	%		
MPPT Efficiency	99.90	%		
Protection				
Integrated	Anti-islanding Protection, PV String In Insulation Resistor Detection, Residual Current Mo Output Shorted Protecti	nitoring Unit, Output Over Current Protection,		
Over Voltage Category	DC Type II/A	C Type III		
Certifications and Standards				
Grid Regulation	VDE4105, IEC61727/62116, VDE0126 G98, G99, C10-11, UNE21700			
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EI	N 62109-1, IEC/EN 62109-2		
General Data				
Operating Temperature Range (°C)	-40 to +60°C, >4	5°C Derating		
Cooling	Smart Co			
Noise (dB)	≤45 d			
Communication with BMS	RS485; C			
Weight (kg)	35.6			
Cabinet Size (WxHxD mm)	420×670×233 (Excluding Co			
Protection Degree	IP65	·		
nstallation Style	- Wall-mou			
•	5 Years/10			
Warranty	the Warranty Period Depends the Final Installation Site o			



Hybrid Inverter

SUN-16K-SG01LP1-EU





- Max. 16 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- Max. charging/discharging current of 290A
- **6** 6 time periods for battery charging/discharging
- Support storing energy from diesel generator

Model	SUN-16K-SG01LP1-EU
Battery Input Data	
Battery Type	Lead-acid or Lithium-ion
Battery Voltage Range (V)	40-60
Max. Charging Current (A)	290
Max. Discharging Current (A)	290
Charging Strategy for Li-ion Battery	Self-adaption to BMS
Number of Battery Input	2
PV String Input Data	
Max. DC Input Power (W)	20800
Max, DC Input Voltage (V)	500
Start-up Voltage (V)	125
MPPT Voltage Range (V)	150-425
Rated DC Input Voltage (V)	370
Max. Operating PV Input Current (A)	26+26+26
Max. Input Short-Circuit Current (A)	44+44+44
No. of MPP Trackers/	77.777
No. of Strings per MPP Tracker	3/2+2+2
AC Input/Output Data	
Rated AC Input/Output Active Power (W)	16000
Max. AC Input/Output Apparent Power (VA)	17600
Rated AC Input/Output Current (A)	72.7/69.6
Max. AC Input/Output Current (A)	80/76.5
Max, Continuous AC Passthrough (grid to load) (A	
Peak Power (off-grid) (W)	2 times of rated power, 10s
Power Factor Adjustment Range	0.8 leading to 0.8 lagging
Rated Input/Output Voltage/Range (V)	220/230 0,85Un-1,1Un
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65
Grid Connection Form	L+N+PE
Total Current Harmonic Distortion THDi	<3% (of nominal power)
DC Injection Current	<0,5% ln
Efficiency	*0.0 // III
Max. Efficiency	97.6%
Euro Efficiency	96.5%
MPPT Efficiency	>99%
Equipment Protection	~95 %
Integrated	DC Polarity Reverse Connection Protection, AC Output Over Current Protection AC Output Over Voltage Protection, AC Output Short Circuit Protection, Thermal Protection DC Terminal Insulation Impedance Monitoring, DC Component Monitoring, Ground Fault Current Monitoring Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection, DC Input Switch Over Voltage Load Drop Protection, Residual Current (RCD) Detection, Surge protection level
Surge Protection Level	TYPE II(DC), TYPE II(AC)
Interface	
Communication Interface	WIFI, RS485, CAN
General Data	
Operating Temperature Range (\square \square)	-40 to +60°C, >45°C Derating
Permissible Ambient Humidity	0-100%
Permissible Altitude	2000m
Noise (dB)	<50
Ingress Protection(IP) Rating	IP 65
Inverter Topology	Non-Isolated
Over Voltage Category	OVC II(DC), OVC III(AC)
Cabinet Size (WxHxD mm)	464×763×282 (Excluding Connectors and Brackets)
Weight (kg)	52
Type of Cooling	Intelligent Air Cooling
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy
Grid Regulation	IEC 61727, IEC 62116, AS 4777.2, NRS 097
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2



Three Phase Hybrid Inverter

SUN-12 K-SG04LP3-AU





- 240 Max. charging/discharging current of 240A
- 48 48 low voltage battery, transformer isolation design
- $\left(\begin{array}{c}6\end{array}
 ight)$ 6 time periods for battery charging/discharging
 - Support storing energy from diesel generator

Model	SUN-12K -SG04LP3-AU
Battery Input Data	
Battery Type	Lead-acid or Li-lon
Battery Voltage Range (V)	2000 0010 01 21 1011
Max. Charging Current (A)	240
Max. Discharging Current (A)	240
External Temperature Sensor	Yes
Charging Curve	3 Stages / Equalization
Charging Strategy for Li-Ion Battery	Self-adaption to BMS
PV String Input Data	och dauptorto bi-lo
Max. PV Input Power (W)	18000
Rated PV Input Voltage (V)	550 (160-800)
Start-up Voltage (V)	160
MPPT Voltage Range (V)	200-650
Full Load PV Voltage Range (V)	350-650
PV Input Current (A)	26+13
Max. PV I _{SC} (A)	39+19.5
Number of MPPT / Strings per MPPT AC Output Data	2/2+1
Rated AC Output and UPS Power (W)	42000
	12000
Rated Apparent Output Power (VA)	12000
Max. AC Output Power (W)	12000
Rated AC Output Current (A)	17.4
Max. AC Output Current (A)	17.4
Max. Three-phase Unbalanced Output Current A)	26.1
Max. Continuous AC Passthrough (A)	45
Peak Power (off grid)	2 time of rated power, 10 S
Power Factor	0.8 leading to 0.8 lagging
Output Frequency and Voltage	50Hz; 3L/N/PE 230/400, 240/415Vac
Grid Connection Form	3L+N+PE
Total Harmonics Current Distortion (THDi)	< 3% (of nominal power)
DC current injection	<0.5% ln
Efficiency	
Max. Efficiency	97.60%
Euro Efficiency	97.00%
MPPT Efficiency	99.90%
Protection	77.700
Integrated	Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge protection
Over Voltage Category	DC Type II/AC Type III
Certifications and Standards	A
Grid Regulation	AS/NZS 4777.2
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2
General Data	
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating
Cooling	Smart cooling
Noise (dB)	≤55 dB
Communication with BMS	RS485; CAN
Weight (kg)	38
Size (mm)	422W×658H×254D(Excluding connectors and brackets)
	422W×658H×254D (Excluding connectors and brackets) IP65
Protection Degree	Wall-mounted
Installation Style	
Warranty	10 Years





UP5000 5kWh 48V LiFePO4 Lithium Battery









Compact size made saving space



Reliable Performance



Can be packed vertical



95% DOD, giving you more usable capacity



10+ Years of proven technology



Modular design for expansion



Superior low failure rate



Life span of 10+years



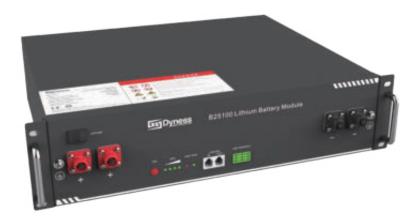
Specification	Basic Parameters	UP5000	
	Nominal Voltage (V)	48V	
Nominal	Nominal Capacity (Wh)	4800Wh	
	Usable Capacity (Wh)	4560Wh	
Dhusiaal	Dimension (mm)	442*420*165	
Physical	Weight (kg)	41kg	
	Discharge Voltage (VDC)	44.5VDC	
	Charge Voltage (VDC)	52.5 ~53.5VDC	
Electrical	Charge / Discharge Current (Amps)	50 (Continuous) 74-89 (60sec) 90-200A (Peak @ 5sec)	
	Communication Port	RS485, CAN	
	Single String Quantity (pcs)	16pcs	
	Working Temperature °C	0~50°C Charge -10~50°C Discharge	
	Shelf Temperature °C	-20~60°C	
Other	Altitude (m)	<4000m	
	IP Rating	IP20	
	Humidity (RH)	5~95%	
	Certification	IEC62619/CE/UN38.3	
	Design Life	10+ Years (25°C)	
	Cycle Life	>4500 (25°C)	

B25100



ENERGY STORAGE SOLUTIONS

Dyness RV battery B25100 is tailored for outdoor travel, with longer cycle life and higher usable capacity, offering you sufficient capacity to meet different requirements. (3kva 24V DC Compatible)



Features and Advantages



Management Smart BMS



Communication
CAN/RS485



Wide Temperature Range Range of -20~55°C



Light Weight Compact design



Lifespan ≥6000 Cycles



Deeper DOD 90% Discharge

Technical Parameters

Model	B25100
Battery Type	LiFePO4
Nominal Battery Energy	2.56kWh
Nominal Capacity	100Ah
Nominal Voltage	25.6V
Battery Module Charge Voltage	28.8V
Recommended Charge/Discharge Current	25A
Max. Power Charge/Discharge Current	50A
Peak Power Charge/Discharge Current	55(Protect)
Depth of Discharge	90%
Net Weight	≈24kg
Dimension[W*D*H]	480*360*110mm
Charging Temp. Range	0~55°C
Discharging Temp. Range	-20~55°C
Communication	CAN/RS485
Warranty Document Supplied	Yes
Protection Level	IP20







High Safety LFP

Cell level monitoring and balancing

floor-standing and stacked



Wide Compatibility Matching with leading inverters

Technical Specifications

Model	DL5.0C
Battery Type	LiFePO4
Nominal Battery Energy	5.12kWh
Nominal Capacity	100Ah
Nominal Voltage	51.2V
Operating Voltage	44.8~57.6V
Recomended Charge & Discharge C Rate	0.5C
Maximum Discharge C rate	1C
Recommend Charge/Discharge Current	50A
Max Continous Charge Current	75A
Max Continous Discharge Current	100A
Peak Power Charge/Discharge Current	110A (15s)
Depth of Discharge (DOD)	90%
Net Weight	54kg
Dimension[W*D*H]	558*545*150mm
Charging Temp. Range	0~55°C
Discharging Temp. Range	-20~55°C
Communication	CAN/RS485/R232
Cycle Life[1]	≥6000 Cycles
Protection Level	IP20
Expansion	Up to 50 units in parallel
Pros	Can be used in both off-grid and hybrid setups, compact design
Certification & Safety Standard	UN38.3/CE-EMC/IEC62619/CEI-021
Compatible inverters	SMA/Victron/Ingeteam/Delios/Goodwe/Solis/Deye/SAJ/Voltronic/Sungrow, etc.

[1]Test conditions: 0.2C Charging/Discharging, @25°C, 80% DOD



V1.0-20230704







The Powerbox Pro is a type of deep cycle and high capacity LFP battery with improved safety, long lifespan, and optimized user experience. It is especially designed with IP65 for more flexibile and easier installation indoor or outdoor with wall-mounted and landed installation options. With up to 10 kWh for single unit and max 5 units in parallel with superior performance, it can meet the household electricity demand. Get ready with Powerbox Pro for super power storage for your life.



APP Monitoring (optional)

Real-time monitoring & Remote upgrade available



High Protection Level Indoor & outdoor options



DYNESS

Various Mounting Methods
Wall-mounted,
floor-standing and stacked



High Safety

LFP & smart BMS



Wide Compatibility

Matching with leading inverters

Technical Specifications

Model	Powerbox Pro
Battery Type	LiFePO4
Nominal Battery Energy	10.24kWh
Operating Voltage	44.8~57.6V
Nominal Voltage	51.2V
Nominal Capacity	200Ah
Nominal Power	5.12kW
Peak Power	10.24kW
Recommended Charge & Discharge C Rate	0.5C
Recommended Charge & Discharge Current	100A
Recommended Charge & Discharge (DOD)	90%
Net Weight	103kg
Dimensions[W*D*H]	555*210*928mm
Charging Temp. Range	0~55C
Discharging Temp. Range	-20~55C
Communication	CAN/RS485/RS232
Cycle Life	≥6000 Cycles
Protection Level	IP65
Expansion	Up to 5 units in parallel
Color	White
Alarms	Over Charge/Over-Discharge/Over Current/Over Temperature/Short C
Pros	Can be used in both off-grid and hybrid setups, compact design, floor or wall-mo
Certification & Safety Standard	UN38.3/CE-EMC/IEC62619/IEC62040/IEC60730/UKCA/ECE Accredit
Compatible inverters	SMA/Victron/Ingeteam/Delios/Goodwe /Solis/Deye/SAJ/Voltronic/Sungrow, etc.

[1]Test conditions: 0.2C Charging/Discharging, @25°C, 80% DOD







Tiger Neo N-type 72HL4-BDV 550-570 Watt

BIFACIAL MODULE WITH DUAL GLASS

N-Type

Positive power tolerance of 0~+3%

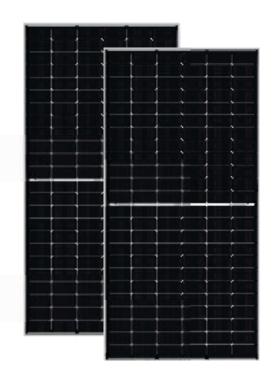
IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018

Occupational health and safety management systems



Key Features



SMBB Technology

Better light trapping and current collection to improve module power output and reliability.



Hot 2.0 Technology

The N-type module with Hot 2.0 technology has better reliability and lower LID/LETID.



PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



Enhanced Mechanical Load

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).



Higher Power Output

Module power increases 5-25% generally, bringing significantly lower LCOE and higher IRR.



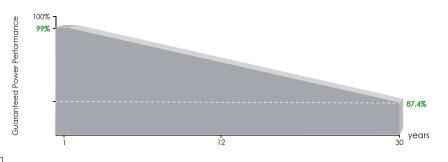








LINEAR PERFORMANCE WARRANTY



12 Year Product Warranty

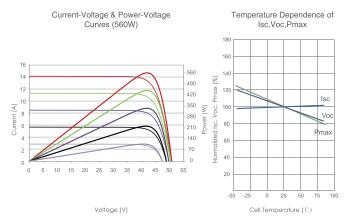
30 Year Linear Power Warranty

0.40% Annual Degradation Over 30 years

Engineering Drawings

The side Back

Electrical Performance & Temperature Dependence



Length: ±2mm Width: ±2mm Width: ±2mm Height: ±1mm Row Pitch: ±2mm

Packaging Configuration

(Two pallets = One stack)

36pcs/pallets, 72pcs/stack, 720pcs/ 40'HQ Container

Mechanica	al Characteristics
Cell Type	N type Mono-crystalline
No. of cells	144 (6×24)
Dimensions	2278×1134×30mm (89.69×44.65×1.18 inch)
Weight	32 kg (70.55 lbs)
Front Glass	2.0mm, Anti-Reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm² (+); 400mm , (-); 200mm or Customized Lenath

SPECIFICATIONS										
Module Type	JKM550N-	72HL4-BDV	JKM555N-	72HL4-BDV	JKM560N-	72HL4-BDV	JKM565N-	72HL4-BDV	JKM570N-	72HL4-BDV
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	550Wp	414Wp	555Wp	417Wp	560Wp	421Wp	565Wp	425Wp	570Wp	429Wp
Maximum Power Voltage (Vmp)	41.58V	39.13V	41.77V	39.26V	41.95V	39.39V	42.14V	39.52V	42.29V	39.65V
Maximum Power Current (Imp)	13.23A	10.57A	13.29A	10.63A	13.35A	10.69A	13.41A	10.75A	13.48A	10.81A
Open-circuit Voltage (Voc)	50.27V	47.75V	50.47V	47.94V	50.67V	48.13V	50.87V	48.32V	51.07V	48.51V
Short-circuit Current (Isc)	14.01A	11.31A	14.07A	11.36A	14.13A	11.41A	14.19A	11.46A	14.25A	11.50A
Module Efficiency STC (%)	21.2	29%	21	48%	21.0	68%	21.	87%	22.0	07%
Operating Temperature (°C)					-40°C~	+85°C				
Maximum system voltage					1500VD	C (IEC)				
Maximum series fuse rating					30)A				
Power tolerance					0~+	-3%				
Temperature coefficients of Pmax	(-0.30	%/°C				
Temperature coefficients of Voc					-0.25	%/°C				
Temperature coefficients of Isc					0.046	%/°C				
Nominal operating cell temperate	ure (NOCT)			45±	2°C				
Refer. Bifacial Factor					80±	:5%				

BIFAC	IAL OUTPUT-REARSIDE	POWER GA	AIN			
5%	Maximum Power (Pmax) Module Efficiency STC (%)	578Wp 22.36%	583Wp 22.56%	588Wp 22.77%	593Wp 22.97%	599Wp 23.17%
15%	Maximum Power (Pmax) Module Efficiency STC (%)	633Wp 24.48%	638Wp 24.71%	644Wp 24.93%	650Wp 25.15%	656Wp 25.37%
25%	Maximum Power (Pmax) Module Efficiency STC (%)	688Wp 26.61%	694Wp 26.86%	700Wp 27.10%	706Wp 27.34%	713Wp 27.58%



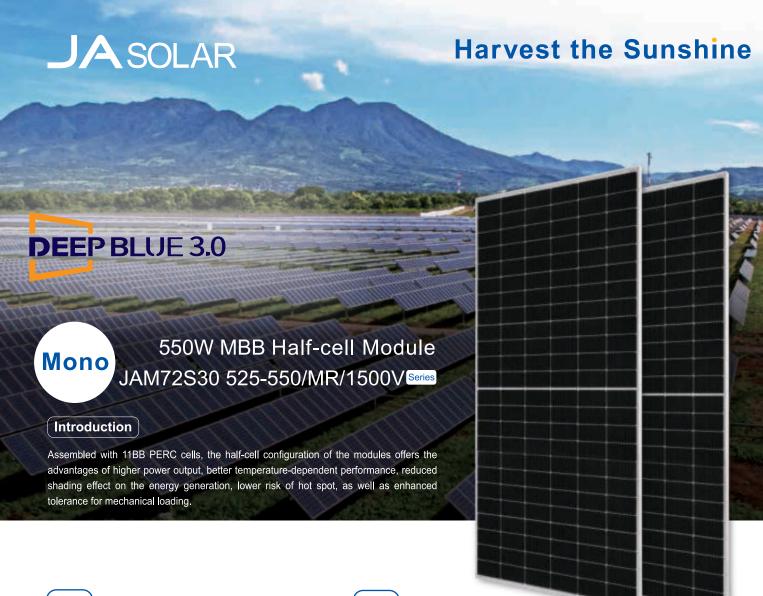




NOCT: Irradiance 800W/m²









Higher output power



Lower LCOE



Less shading and lower resistive loss



Better mechanical loading tolerance

Superior Warranty



■ New linear power warranty ■ Standard module linear power warranty

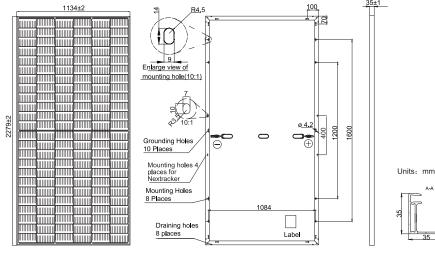
Comprehensive Certificates

- IEC 61215, IEC 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems





MECHANICAL DIAGRAMS



SPECIFICATIONS

	Cell	Mono
	Weight	28.6kg±3%
	Dimensions	2279±2mm×1134±2mm×35±1mm
	Cable Cross Section Size	4mm² (IEC) , 12 AWG(UL)
	No. of cells	144(6×24)
	Junction Box	IP68, 3 diodes
	Connector	Genuine MC4-EVO2 QC 4.10-35/45
	Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-); Landscape: 1300mm(+)/1300mm(-)
l	Country of Manufacturer	China/Vietnam

Remark: customized frame color and cable length available upon request

ELECTRICAL PARAMETERS AT STC

	/					
TYPE	JAM72S30 -525/MR/1500V	JAM72S30 -530/MR/1500V	JAM72S30 -535/MR/1500V	JAM72S30 -540/MR/1500V	JAM72S30 -545/MR/1500V	JAM72S30 -550/MR/1500V
Rated Maximum Power(Pmax) [W]	525	530	535	540	545	550
Open Circuit Voltage(Voc) [V]	49.15	49.30	49.45	49.60	49.75	49.90
Maximum Power Voltage(Vmp) [V]	41.15	41.31	41.47	41.64	41.80	41.96
Short Circuit Current(Isc) [A]	13.65	13.72	13.79	13.86	13.93	14.00
Maximum Power Current(Imp) [A]	12.76	12.83	12.90	12.97	13.04	13.11
Module Efficiency [%]	20.3	20.5	20.7	20.9	21.1	21.3
Power Tolerance			0~+5W			
Temperature Coefficient of Isc(α_Isc)			+0.045%°C			
Temperature Coefficient of Voc(β_Voc)			-0.275%/°C			
Temperature Coefficient of $Pmax(\gamma_Pmp)$			-0.350%/°C			

Irradiance 1000W/m², cell temperature 25°C, AM1.5G

Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s, AM1.5G

ELECTRICAL DADAMETERS AT NOCT

ELECTRICAL PARA	AMETERS	AT NOCT					(
TYPE	JAM72S30-525 /MR/1500V	JAM72S30-530 /MR/1500V	JAM72S30-535 /MR/1500V	JAM72S30-540 /MR/1500V	JAM72S30-545 /MR/1500V	JAM72S30-550 /MR/1500V	1
Rated Max Power(Pmax) [W] 397	401	405	408	412	416	(
Open Circuit Voltage(Voc) [V	[']] 46.05	46.18	46.31	46.43	46.55	46.68	ı
Max Power Voltage(Vmp) [V] 38.36	38.57	38.78	38.99	39.20	39.43	1
Short Circuit Current(Isc) [A]	10.97	11.01	11.05	11.09	11.13	11.17	1
Max Power Current(Imp) [A]	10.35	10.39	10.43	10.47	10.51	10.55	0,

*For NexTracker installations, Maximum Static Load, Front is 2000Pa while Maximum Static Load, Back is 2000Pa	Pa.
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OPERATING CONDITIONS

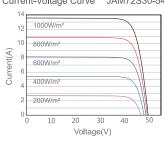
)	Maximum System Voltage	1500V DC (IEC)	
	Operating Temperature	-40°C~+85°C	
	Maximum Series Fuse Rating	25A	
	Maximum Static Load,Front* Maximum Static Load,Back*	3600Pa, 1.5 1600Pa, 1.5	
	NOCT	45±2°C	
	Safety Class	Class II	
	Fire Performance	UL Type 1	

CHARACTERISTICS

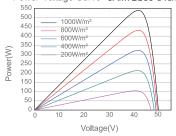
STC

NOCT

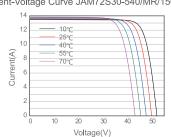
Current-Voltage Curve JAM72S30-540/MR/1500V







Current-Voltage Curve JAM72S30-540/MR/1500V



AC Combiner Boxes

Solar Accessories

Single Phase	5KW Inverter	Pre- Wired
Single Phase	8KW Inverter	Pre- Wired
Three Phase	12KW Inverter	Pre- Wired



^{*} Image may differ from shown.

PV Combiner Boxes

Solar Accessories

Single Phase	5KW Inverter	Pre-Wired
Single Phase	8KW Inverter	Pre-Wired
Three Phase	12KW Inverter	Pre-Wired



^{*} Image may differ from shown.

Battery Disconnectors Solar Accessories

125Amp	5KW Inverter
200Amp	8KW Inverter
250Amp	12KW Inverter

^{*} Excludes DC Blade Fuse Links



* Image may differ from shown.





Notes

Notes











The Welding, Safety and Power Company



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