

STAR
g e n e r a t o r



STAR
POWER GENERATION

CE ISO 9001
STAR

PRODUCT LINE 15 - 45 kVA

Generators with QUANCHAI engine

SDG-15Q - POWERED BY QUANCHAI

GENERATOR SET SPECIFICATIONS

- High quality and reliability.
- Structurally easy start-up and maintenance.
- Heavy duty water cooled diesel engine.
- Brushless industrial alternator with AVR.
- Steel base frame integrated with high cap. fuel tank.
- Anti - vibration mounts.
- High temperature, low oil pressure, fuel level alarms and shutdowns.
- Engine filled with lubrication oil and coolant mix.
- Engine coolant heater.
- Fuel level indicator on LCD display of controller.
- Complete protection of rotating and hot parts.
- industrial type silencer.
- Fuel tank and engine oil heater (Option).

CONTROL PANEL



- Multi - lingual control panel with microprocessor.
- Digital LCD - display provides simple, intuitive menu navigation and control of generator set operation.
- Key information is displayed via the LCD screen.
- Simple push-button control;
OFF - MANUAL - AUTO - TEST - START
- Manual programming on control panel.
- Circuit Breaker.
- Emergency stop button, light and sound alarm siren.
- Battery charger.
- Remote control with GSM modem (option).

SOUNDPROOF CANOPY

- Sound attenuated.
- Robust and highly corrosion resistant construction
- Excellent access for maintenance through 2-6 doors.
- Fully weatherproof.
- Base mounted lifting eyes and canopy lifting points.
- Non-flammable acoustic foam.
- Totally enclosed exhaust silencing system.
- Vibration absorber pads.



Technical data is a subject to change. Star assumes no responsibility for misprint. Pictures may differ from original product.

POWER RATINGS

Standby Power (ESP)	kVA / kW	15 / 13
Prime Power (PRP)	kVA / kW	14 / 11
Current (ESP)	A	21
Voltage - Frequency	V - Hz	400 / 230 - 50
Phase Quantity - Power Factor	Unit - Cosφ	3 - 0,8

ENGINE

Engine Make & Model	QUANCHAI	QC480D
Engine Mechanical Power	kW	14
Air Intake System		Natural
Cylinder Volume	L	1,8
Cylinder Quantity / Type		4 / Line
Bore & Stroke	MM x MM	80x90
Fuel injection system		Direct
Governing Type		Mechanic
Engine Speed	RPM	1500
Cooling Method		Water
Electrical System	V DC	12
Oil Capacity	L	5
Engine Coolant Capacity	L	12
Daily Fuel Tank Capacity	L	50
Fuel Consumption		
Load %100	L / H	3,6
Load %75	L / H	2,6
Load %50	L / H	1,8

ALTERNATOR

Alternator Make & Model	STAR	SA164D
Alternator Type	Electronic (AVR)	Brushless
Standby Power (ESP)	kVA	15
Voltage - Frequency	V - Hz	400 / 230 - 50
Voltage Regulation		+/- 1.0
Insulation / Protection Class		H / IP 23
Pole Quantity		4

DIMENSIONS AND WEIGHTS



Open Type	LxWxH - mm / Weight - Kg	1410 x 720 x 1048 / 504
Canopied Type	LxWxH - mm / Weight - Kg	1790 x 780 x 1250 / 550

Standby Power (ESP): Emergency power under varying electrical load. Overload is not permitted.

Prime Power (PRP): Nominal power under varying electrical load for unlimited hours. 10 % overload is available for a period of 1 hour within 12 hours.

SDG-20Q - POWERED BY QUANCHAI

GENERATOR SET SPECIFICATIONS

- High quality and reliability.
- Structurally easy start-up and maintenance.
- Heavy duty water cooled diesel engine.
- Brushless industrial alternator with AVR.
- Steel base frame integrated with high cap. fuel tank.
- Anti - vibration mounts.
- High temperature, low oil pressure, fuel level alarms and shutdowns.
- Engine filled with lubrication oil and coolant mix.
- Engine coolant heater.
- Fuel level indicator on LCD display of controller.
- Complete protection of rotating and hot parts.
- industrial type silencer.
- Fuel tank and engine oil heater (Option).

CONTROL PANEL



- Multi - lingual control panel with microprocessor.
- Digital LCD - display provides simple, intuitive menu navigation and control of generator set operation.
- Key information is displayed via the LCD screen.
- Simple push-button control;
OFF - MANUAL - AUTO - TEST - START
- Manual programming on control panel.
- Circuit Breaker.
- Emergency stop button, light and sound alarm siren.
- Battery charger.
- Remote control with GSM modem (option).

SOUNDPROOF CANOPY

- Sound attenuated.
- Robust and highly corrosion resistant construction
- Excellent access for maintenance through 2-6 doors.
- Fully weatherproof.
- Base mounted lifting eyes and canopy lifting points.
- Non-flammable acoustic foam.
- Totally enclosed exhaust silencing system.
- Vibration absorber pads.



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POWER RATINGS

Standby Power (ESP)	kVA / kW	20 / 16
Prime Power (PRP)	kVA / kW	18 / 14
Current (ESP)	A	25
Voltage - Frequency	V - Hz	400 / 230 - 50
Phase Quantity - Power Factor	Unit - Cosφ	3 - 0,8

ENGINE

Engine Make & Model	QUANCHAI	QC490BD
Engine Mechanical Power	kW	22
Air Intake System		Natural
Cylinder Volume	L	2,6
Cylinder Quantity / Type		4 / Line
Bore & Stroke	MM x MM	85x95
Fuel injection system		Direct
Governing Type		Mechanic
Engine Speed	RPM	1500
Cooling Method		Water
Electrical System	V DC	12
Oil Capacity	L	7
Engine Coolant Capacity	L	18
Daily Fuel Tank Capacity	L	75
Fuel Consumption		
Load %100	L / H	4,3
Load %75	L / H	3,2
Load %50	L / H	2,3

ALTERNATOR

Alternator Make & Model	STAR	SA184ES
Alternator Type	Electronic (AVR)	Brushless
Standby Power (ESP)	kVA	20
Voltage - Frequency	V - Hz	400 / 230 - 50
Voltage Regulation		+/- 1.0
Insulation / Protection Class		H / IP 23
Pole Quantity		4

DIMENSIONS AND WEIGHTS



Open Type	LxWxH - mm / Weight - Kg	1530 x 900 x 1120 / 504
Canopied Type	LxWxH - mm / Weight - Kg	2055 x 960 x 1244 / 680

Standby Power (ESP): Emergency power under varying electrical load. Overload is not permitted.

Prime Power (PRP): Nominal power under varying electrical load for unlimited hours.10 % overload is available for a period of 1 hour within 12 hours.

SDG-25Q - POWERED BY QUANCHAI

GENERATOR SET SPECIFICATIONS

- High quality and reliability.
- Structurally easy start-up and maintenance.
- Heavy duty water cooled diesel engine.
- Brushless industrial alternator with AVR.
- Steel base frame integrated with high cap. fuel tank.
- Anti - vibration mounts.
- High temperature, low oil pressure, fuel level alarms and shutdowns.
- Engine filled with lubrication oil and coolant mix.
- Engine coolant heater.
- Fuel level indicator on LCD display of controller.
- Complete protection of rotating and hot parts.
- industrial type silencer.
- Fuel tank and engine oil heater (Option).

CONTROL PANEL



- Multi - lingual control panel with microprocessor.
- Digital LCD - display provides simple, intuitive menu navigation and control of generator set operation.
- Key information is displayed via the LCD screen.
- Simple push-button control;
OFF - MANUAL - AUTO - TEST - START
- Manual programming on control panel.
- Circuit Breaker.
- Emergency stop button, light and sound alarm siren.
- Battery charger.
- Remote control with GSM modem (option).

SOUNDPROOF CANOPY

- Sound attenuated.
- Robust and highly corrosion resistant construction
- Excellent access for maintenance through 2-6 doors.
- Fully weatherproof.
- Base mounted lifting eyes and canopy lifting points.
- Non-flammable acoustic foam.
- Totally enclosed exhaust silencing system.
- Vibration absorber pads.



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POWER RATINGS

Standby Power (ESP)	kVA / kW	25 / 20
Prime Power (PRP)	kVA / kW	23 / 18
Current (ESP)	A	31
Voltage - Frequency	V - Hz	400 / 230 - 50
Phase Quantity - Power Factor	Unit - Cosφ	3 - 0,8

ENGINE

Engine Make & Model	QUANCHAI	QC490D
Engine Mechanical Power	kW	22
Air Intake System		Natural
Cylinder Volume	L	2,67
Cylinder Quantity / Type		4 / Line
Bore & Stroke	MM x MM	90x105
Fuel injection system		Direct
Governing Type		Electronic
Engine Speed	RPM	1500
Cooling Method		Water
Electrical System	V DC	12
Oil Capacity	L	6,5
Engine Coolant Capacity	L	12
Daily Fuel Tank Capacity	L	75
Fuel Consumption		
Load %100	L / H	5,4
Load %75	L / H	4,0
Load %50	L / H	2,8

ALTERNATOR

Alternator Make & Model	STAR	SA184FS
Alternator Type	Electronic (AVR)	Brushless
Standby Power (ESP)	kVA	25
Voltage - Frequency	V - Hz	400 / 230 - 50
Voltage Regulation		+/- 1.0
Insulation / Protection Class		H / IP 23
Pole Quantity		4

DIMENSIONS AND WEIGHTS



Open Type	LxWxH - mm / Weight - Kg	1530x 900 x 1120 / 540
Canopied Type	LxWxH - mm / Weight - Kg	2055x 960 x 1244 / 695

Standby Power (ESP): Emergency power under varying electrical load. Overload is not permitted.

Prime Power (PRP): Nominal power under varying electrical load for unlimited hours. 10 % overload is available for a period of 1 hour within 12 hours.

SDG-30Q - POWERED BY QUANCHAI

GENERATOR SET SPECIFICATIONS

- High quality and reliability.
- Structurally easy start-up and maintenance.
- Heavy duty water cooled diesel engine.
- Brushless industrial alternator with AVR.
- Steel base frame integrated with high cap. fuel tank.
- Anti - vibration mounts.
- High temperature, low oil pressure, fuel level alarms and shutdowns.
- Engine filled with lubrication oil and coolant mix.
- Engine coolant heater.
- Fuel level indicator on LCD display of controller.
- Complete protection of rotating and hot parts.
- industrial type silencer.
- Fuel tank and engine oil heater (Option).

CONTROL PANEL



- Multi - lingual control panel with microprocessor.
- Digital LCD - display provides simple, intuitive menu navigation and control of generator set operation.
- Key information is displayed via the LCD screen.
- Simple push-button control;
OFF - MANUAL - AUTO - TEST - START
- Manual programming on control panel.
- Circuit Breaker.
- Emergency stop button, light and sound alarm siren.
- Battery charger.
- Remote control with GSM modem (option).

SOUNDPROOF CANOPY

- Sound attenuated.
- Robust and highly corrosion resistant construction
- Excellent access for maintenance through 2-6 doors.
- Fully weatherproof.
- Base mounted lifting eyes and canopy lifting points.
- Non-flammable acoustic foam.
- Totally enclosed exhaust silencing system.
- Vibration absorber pads.



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POWER RATINGS

Standby Power (ESP)	kVA / kW	30 / 24
Prime Power (PRP)	kVA / kW	27 / 22
Current (ESP)	A	44
Voltage - Frequency	V - Hz	400 / 230 - 50
Phase Quantity - Power Factor	Unit - Cosφ	3 - 0,8

ENGINE

Engine Make & Model	QUANCHAI	QC493D
Engine Mechanical Power	kW	22,5
Air Intake System		Natural
Cylinder Volume	L	3,168
Cylinder Quantity / Type		4 / Line
Bore & Stroke	MM x MM	98 x 105
Fuel injection system		Direct
Governing Type		Electronic
Engine Speed	RPM	1500
Cooling Method		Water
Electrical System	V DC	12
Oil Capacity	L	6,5
Engine Coolant Capacity	L	21,1
Daily Fuel Tank Capacity	L	100
Fuel Consumption		
Load %100	L / H	5,9
Load %75	L / H	5,5
Load %50	L / H	3,2

ALTERNATOR

Alternator Make & Model		STAR
Alternator Type	Electronic (AVR)	Brushless
Standby Power (ESP)	kVA	30
Voltage - Frequency	V - Hz	400 / 230 - 50
Voltage Regulation		+/- 1.0
Insulation / Protection Class		H / IP 23
Pole Quantity		4

DIMENSIONS AND WEIGHTS



Open Type	LxWxH - mm / Weight - Kg	1530 x 900 x 1120 / 562
Canopied Type	LxWxH - mm / Weight - Kg	2055 x 960 x 1244 / 757

Standby Power (ESP): Emergency power under varying electrical load. Overload is not permitted.

Prime Power (PRP): Nominal power under varying electrical load for unlimited hours. 10% overload is available for a period of 1 hour within 12 hours.

SDG-35Q - POWERED BY QUANCHAI

GENERATOR SET SPECIFICATIONS

- High quality and reliability.
- Structurally easy start-up and maintenance.
- Heavy duty water cooled diesel engine.
- Brushless industrial alternator with AVR.
- Steel base frame integrated with high cap. fuel tank.
- Anti - vibration mounts.
- High temperature, low oil pressure, fuel level alarms and shutdowns.
- Engine filled with lubrication oil and coolant mix.
- Engine coolant heater.
- Fuel level indicator on LCD display of controller.
- Complete protection of rotating and hot parts.
- industrial type silencer.
- Fuel tank and engine oil heater (Option).

CONTROL PANEL



- Multi - lingual control panel with microprocessor.
- Digital LCD - display provides simple, intuitive menu navigation and control of generator set operation.
- Key information is displayed via the LCD screen.
- Simple push-button control;
OFF - MANUAL - AUTO - TEST - START
- Manual programming on control panel.
- Circuit Breaker.
- Emergency stop button, light and sound alarm siren.
- Battery charger.
- Remote control with GSM modem (option).

SOUNDPROOF CANOPY

- Sound attenuated.
- Robust and highly corrosion resistant construction
- Excellent access for maintenance through 2-6 doors.
- Fully weatherproof.
- Base mounted lifting eyes and canopy lifting points.
- Non-flammable acoustic foam.
- Totally enclosed exhaust silencing system.
- Vibration absorber pads.



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POWER RATINGS

Standby Power (ESP)	kVA / kW	35 / 28
Prime Power (PRP)	kVA / kW	32 / 26
Current (ESP)	A	50
Voltage - Frequency	V - Hz	400 / 230 - 50
Phase Quantity - Power Factor	Unit - Cosφ	3 - 0,8

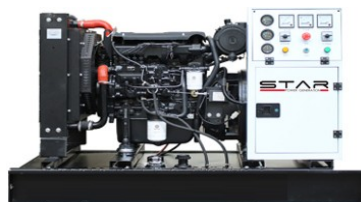
ENGINE

Engine Make & Model	QUANCHAI	QC4102D
Engine Mechanical Power	kW	30
Air Intake System		Natural
Cylinder Volume	L	3,87
Cylinder Quantity / Type		4 / Line
Bore & Stroke	MM x MM	102x118
Fuel injection system		Direct
Governing Type		Electronic
Engine Speed	RPM	1500
Cooling Method		Water
Electrical System	V DC	12
Oil Capacity	L	11
Engine Coolant Capacity	L	12
Daily Fuel Tank Capacity	L	120
Fuel Consumption		
Load %100	L / H	8,2
Load %75	L / H	6,2
Load %50	L / H	4,5

ALTERNATOR

Alternator Make & Model	STAR	SA184H
Alternator Type	Electronic (AVR)	Brushless
Standby Power (ESP)	kVA	35
Voltage - Frequency	V - Hz	400 / 230 - 50
Voltage Regulation		+/- 1.0
Insulation / Protection Class		H / IP 23
Pole Quantity		4

DIMENSIONS AND WEIGHTS



Open Type	LxWxH - mm / Weight - Kg	1780 x 1000 x 1120 / 695
Canopied Type	LxWxH - mm / Weight - Kg	2200 x 1060 x 1373 / 930

Standby Power (ESP): Emergency power under varying electrical load. Overload is not permitted.

Prime Power (PRP): Nominal power under varying electrical load for unlimited hours. 10% overload is available for a period of 1 hour within 12 hours.

SDG-45Q - POWERED BY QUANCHAI

GENERATOR SET SPECIFICATIONS

- High quality and reliability.
- Structurally easy start-up and maintenance.
- Heavy duty water cooled diesel engine.
- Brushless industrial alternator with AVR.
- Steel base frame integrated with high cap. fuel tank.
- Anti - vibration mounts.
- High temperature, low oil pressure, fuel level alarms and shutdowns.
- Engine filled with lubrication oil and coolant mix.
- Engine coolant heater.
- Fuel level indicator on LCD display of controller.
- Complete protection of rotating and hot parts.
- industrial type silencer.
- Fuel tank and engine oil heater (Option).

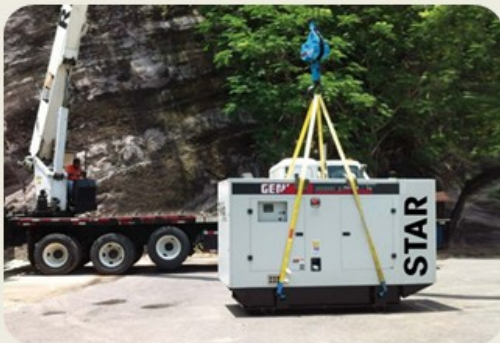
CONTROL PANEL



- Multi - lingual control panel with microprocessor.
- Digital LCD - display provides simple, intuitive menu navigation and control of generator set operation.
- Key information is displayed via the LCD screen.
- Simple push-button control;
OFF - MANUAL - AUTO - TEST - START
- Manual programming on control panel.
- Circuit Breaker.
- Emergency stop button, light and sound alarm siren.
- Battery charger.
- Remote control with GSM modem (option).

SOUNDPROOF CANOPY

- Sound attenuated.
- Robust and highly corrosion resistant construction
- Excellent access for maintenance through 2-6 doors.
- Fully weatherproof.
- Base mounted lifting eyes and canopy lifting points.
- Non-flammable acoustic foam.
- Totally enclosed exhaust silencing system.
- Vibration absorber pads.



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POWER RATINGS

Standby Power (ESP)	kVA / kW	45 / 36
Prime Power (PRP)	kVA / kW	41 / 33
Current (ESP)	A	58
Voltage - Frequency	V - Hz	400 / 230 - 50
Phase Quantity - Power Factor	Unit - Cosφ	3 - 0,8

ENGINE

Engine Make & Model	QUANCHAI	QC498BD
Engine Mechanical Power	kW	30
Air Intake System		Natural
Cylinder Volume	L	3,87
Cylinder Quantity / Type		4/ Line
Bore & Stroke	MM x MM	102x118
Fuel injection system		Direct
Governing Type		Electronic
Engine Speed	RPM	1500
Cooling Method		Water
Electrical System	V DC	12
Oil Capacity	L	11
Engine Coolant Capacity	L	12
Daily Fuel Tank Capacity	L	120
Fuel Consumption		
Load %100	L / H	8,2
Load %75	L / H	6,2
Load %50	L / H	4,5

ALTERNATOR

Alternator Make & Model	STAR	SA184H
Alternator Type	Electronic (AVR)	Brushless
Standby Power (ESP)	kVA	45
Voltage - Frequency	V - Hz	400 / 230 - 50
Voltage Regulation		+/- 1.0
Insulation / Protection Class		H / IP 23
Pole Quantity		4

DIMENSIONS AND WEIGHTS



Open Type	LxWxH - mm / Weight - Kg	1780 x 1000 x 1120 / 720
Canopied Type	LxWxH - mm / Weight - Kg	2200 x 1060 x 1373 / 1015

Standby Power (ESP): Emergency power under varying electrical load. Overload is not permitted.

Prime Power (PRP): Nominal power under varying electrical load for unlimited hours.10 % overload is available for a period of 1 hour within 12 hours.