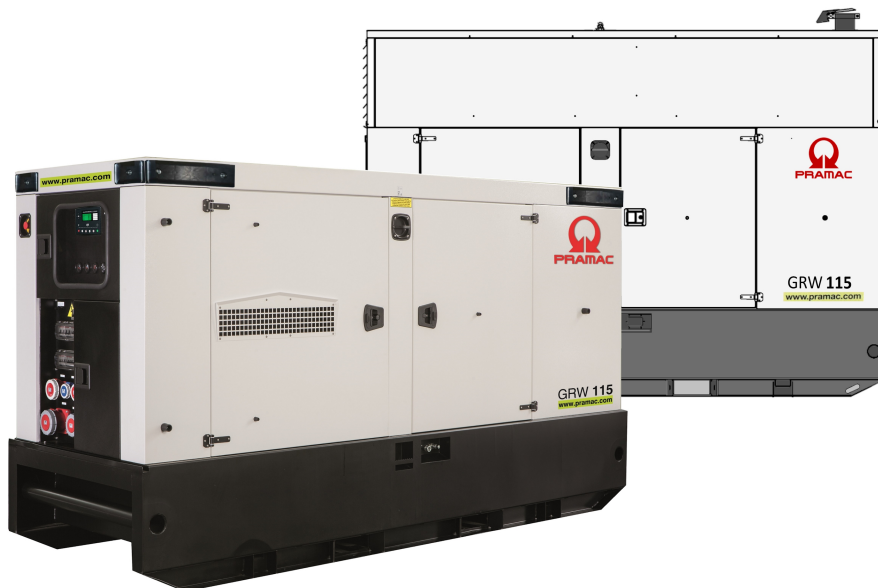
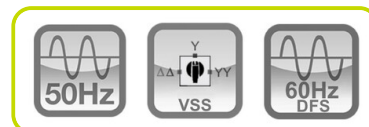


# GRW115P



## Power Rating

Emergency Standby Power ESP	kVA	110.0
Emergency Standby Power ESP	kW	88.0
Prime power PRP	kVA	100.0
Prime power PRP	kW	80.0
Frequency	Hz	50
Voltage	V	400/230
Phases	№	3
Power factor	cos $\phi$	0.8
Fuel		Diesel
[50Hz] Exhaust emission level		Stage IIIA
VERSION SWITCHABLE [50/60Hz]		YES



## Ratings definition (ISO-8528-1)

### ESP - Emergency Standby Power:

It is the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 h of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. The permissible average power output over 24 h of operation shall not exceed 70 % of the ESP.

### PRP - Prime Power:

It is defined as being the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output over 24 h of operation shall not exceed 70 % of the prime power.

**G2 class load acceptance in accordance with ISO 8528-5:** Higher performance classes check upon request.

**Gensets are compliant with EC mark which includes the following directives and standards and subsequent modification and integration:**

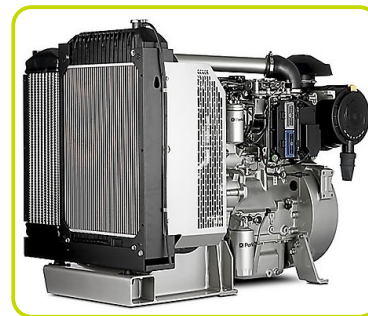
- 2006/42/CE Machinery safety
- 2014/30/UE Electromagnetic compatibility
- 2014/35/UE electrical equipment designed for use within certain voltage limits
- 2000/14/EC Sound Power level. Noise emissions outdoor equipment. (amended by 2005/88/EC) – If applicable
- 97/68/EC Emissions of gaseous and particulate pollutants. (amended by 2016/1628 EC) – If applicable
- ISO 8528 as applicable
- 2011/65 ROHS
- EN 12100, EN 13857, EN 60204 as referred into the ISO8528-13

**Company with quality certification ISO 9001**



### Engine specifications

Engine Brand	Perkins	
Model	1104D-E44TAG2	
Engine cooling system	Water	
Nr. of cylinder and disposition	4 in line	
Displacement	cm <sup>3</sup>	4399
Aspiration	Turbocharged	
Speed governor	Electronic	
Oil capacity	l	8.4
Lube oil consumption PRP (max)	%	0.1
Coolant capacity	l	17
Electric circuit	V	12
Fuel	Diesel	
VERSION SWITCHABLE [50/60Hz]	YES	
[50Hz] Operating Speed-Nominal	rpm	1500
[50Hz] Exhaust emission level	Stage IIIA	
[50Hz] Specific fuel consumption 75% PRP	g/kWh	238
[50Hz] Specific fuel consumption 100% PRP	g/kWh	206
[60Hz] Operating Speed-Nominal	rpm	1800
[60Hz] Exhaust emission optimized for EPA tier (EPA)	Tier 3	
[60Hz] Specific fuel consumption 75% PRP	g/kWh	227
[60Hz] Specific fuel consumption 100% PRP	g/kWh	213



### Alternator Specifications

Alternator	Leroy Somer	
Model	LSA 44.3 S5	
Type	Brushless	
Class	H	
IP protection	23	
Insulation Protection Systems	Protection System 2	
Poles	4	
Winding leads	12	
Voltage regulation system	Electronic	
Voltage tolerance	%	1



### Installation data

[50Hz] Cooling air	m <sup>3</sup> /min	203.42
[50Hz] Exhaust gas flow PRP	m <sup>3</sup> /min	16.41
[50Hz] Exhaust gas temperature ESP	°C	675
[60Hz] Cooling air	m <sup>3</sup> /min	244.64
[60Hz] Exhaust gas flow PRP	m <sup>3</sup> /min	19.48
[60Hz] Exhaust gas temperature ESP	°C	659



### Electrical Data

Battery Voltage	V	12
Circuit breaker	A	160
Max current	A	159

## Genset Equipment

### CANOPY

Canopy painted made up of modular panels with 1000h+ tested salt spray resistant zined metal sheet, with access doors on each side with high quality gaskets and lockable handles for easy maintenance and service.

### BASE FRAME

Heavy duty base guarantees the highest standards of durability and resistance, painted using a high quality powder coating process (1000+h tested salt spray resistance).

Fully bundled, able to retain 110% of all the sets fluids, the base frame is provided with integrated fork pockets and pull bar for easy maneuverability and site positioning.

### SINGLE LIFTING POINT

Access easy by rung and handle incorporated (available on both sides).

### MANUAL BATTERY SWITCH

Single pole battery switch inside the enclosure.

### EARTH ROD

Earth stock with cable fixed inside the genset.

### DOCS HOLDER

Box internal for documents, manuals and electrical drawings.

### LUBE OIL DRAIN PUMP

Makes it easier to the engine oil change.

### FUEL VALVE (6 WAY)

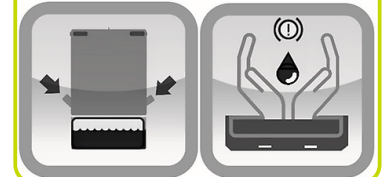
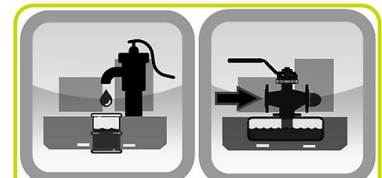
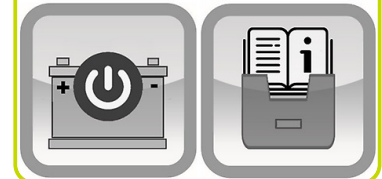
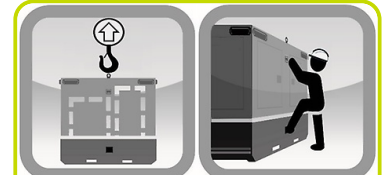
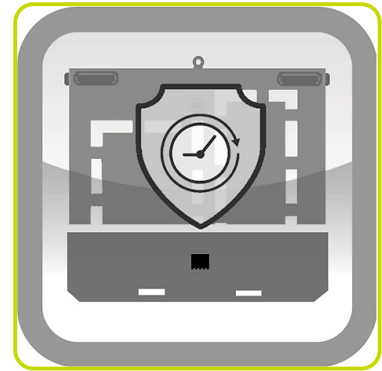
System designed for use the fuel from external tank and increase the autonomy of the generator.

### FUEL TANK

Integrated metal fuel tank complete with double fuel refilling point (one each side).

### LEAK PROOF TRAY WITH DETECTOR SENSOR

Fluid leak check in the leak proof tray.



## Fuel Tank - Autonomy

Fuel tank location		Internal
Fuel tank material		Metal
Fuel tank capacity	l	530
[50Hz 400V] Fuel consumption 75% PRP	l/h	19.65
[50Hz 400V] Running time 75% PRP	h	26.97
[50Hz 400V] Fuel consumption 100% PRP	l/h	22.41
[50Hz 400V] Running time 100% PRP	h	23.65



### Control panel - Options Available:

AUTOMATIC CONTROL PANEL	ACP
MODULAR PARALLEL PANEL	MPP



### ACP - AUTOMATIC CONTROL PANEL

#### CONTROL SECTION:

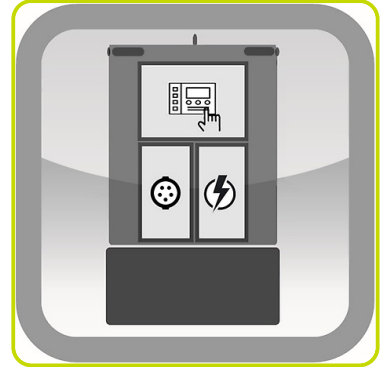
- Auto Mains Failure (AMF) function
- Gen-set controller for single genset operating in standby or prime power modes
- Full gen-set monitoring and protection
- Detailed event and performance log with time and date
- Emergency push button
- Extra Instrumentation (analogue): Fuel level meter; Mechanical hour counter
- Differential protection with internal switch
- Battery charger.

#### SOCKET SECTION:

- Two wires facility for remote start/stop
- Plug for auxiliary power supply
- Socket Kit: Equipment and configurations available as a supplement.

#### POWER SECTION:

- It integrates 4 poles modular circuit breaker suitably rated with thermal and magnetic overloads.
- Large and robust busbar with cables passage opening from the bottom for easy power cable connection.
- Provided with safety switch to trip circuit breaker if operator open the power section door to operate on the bus bar.



### MPP - MODULAR PARALLEL PANEL

#### CONTROL SECTION:

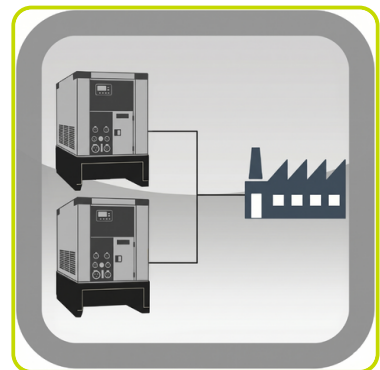
- Modular parallel panel allows the genset to work in parallel (up to 32 gen-sets)
- Easy switching between parallel to mains or multiple genset applications
- Full gen-set monitoring and protection
- Detailed event and performance log with time and date
- Wide range of communication and connection capabilities available
- Emergency push button
- Extra Instrumentation (analogue): Fuel level meter; Mechanical hour counter
- Differential protection with internal switch
- Battery charger.

#### SOCKET SECTION:

- Multi-pin connectors for parallel running.
- Two wires facility for remote start/stop.
- Plug for auxiliary power supply.
- Socket Kit: Equipment and configurations available as a supplement.

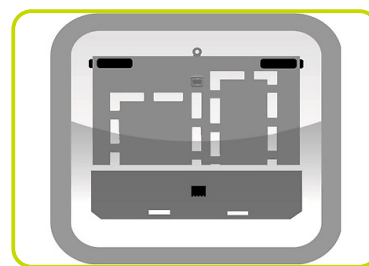
#### POWER SECTION

- It integrates 4 poles motorized moulded case circuit breaker suitably rated with thermal and magnetic overloads
- Large and robust busbar with cables passage opening from the bottom for easy power cable connection.
- Provided with safety switch to trip circuit breaker if operator open the power section door to operate on the bus bar.



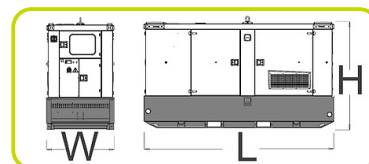
## CANOPY VERSION

- Weatherproof Enclosure made of galvanized sheet metal allows to protect genset from corrosion and aggressive condition.
- Enclosure soundproofed by means of washable and fireproof soundproofing material, allow to reach low noise level.
- Exhaust residential silencer integrated inside the genset equipped with rain flap.
- Enclosure equipped with bumpers to prevent damage during genset handling and transport.



### Dimensional data Canopy Version

Length	(L) mm	3460
Width	(W) mm	1200
Height	(H) mm	1950



Weight	kg	2460
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### Noise Level 50Hz

Guaranteed noise level (LWA)	dB(A)	91
Noise pressure level @ 1 m	dB(A)	73
Noise pressure level @ 7 m	dB(A)	62



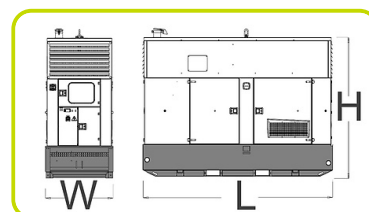
## CANOPY EXTRA SILENT VERSION

- Extra silent Enclosure with low noise emission, suitable for installation near city centre and in any place where severe noise emission restriction are present
- Extra Silent Enclosure guarantee very low noise emission thanks to an additional soundproofing module on the roof, high quality soundproof material and residential silencer installed inside the enclosure



### Dimensional data Canopy (Extra Silent Enclosure)

Length	(L) mm	3460
Width	(W) mm	1200
Height	(H) mm	2545



Weight	kg	2616
--------	----	------

### Noise Level 50Hz (Extra Silent Enclosure)

Guaranteed noise level (LWA)	dB(A)	88
Noise pressure level @ 1 m	dB(A)	69
Noise pressure level @ 7 m	dB(A)	59

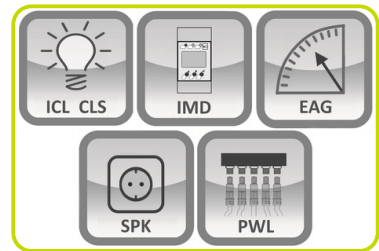


## OPTIONAL FEATURES:

To be ordered with equipment (when necessary) :

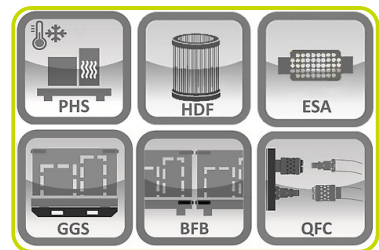
### ELECTRICAL OPTION

Internal Canopy Lighting system with manual switch	ICL
Control section internal lighting (automatic with door switch)	CLS
Engine analogue gauges (water temp / oil pressure)	EAG
Insulation Monitoring Device (Replace standard differential protection)	IMD
Socket kit	SPK
Power lock	PWL
Bus bar arrangement	ERDF



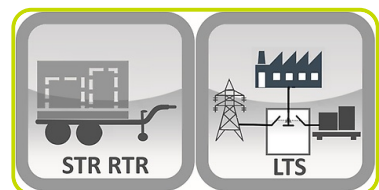
### MECHANICAL OPTION

Pre-heating system	PHS
Water Separator Filter	WSP
Heavy-Duty Air Filter	HDF
Hot Parts Protections	HPP
Exhaust Spark Arrestor ATEX certified	ESA
Air Shut-Off Valve	ASV
Galvanized Sliding Skid	GGs
Baseframe Bumpers	BFB
Quick Fit Fuel connectors	QFC
Quick Fit Connectors inside the canopy	QFC1



## ACCESSORIES

Items available as accessory equipment	:
Site trailer	STR
Road Trailer	RTR
Road Trailer with Drawbar Height-Adjustable	RTR-B
Load Transfer Switch [Accessories for ACP Panel]	LTS



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