



MAKINEX
RENEWABLES

HPS45

The double-skid system includes a battery/control skid and a generator/tank skids which simply plug together using the included cables. Used to power large construction compounds, saving up to 700L of diesel and 2 Tonnes of CO2 per week.



MODEL

Code	HPS45
Outlet Socket	15A - 230V
Inlet Plug	<ul style="list-style-type: none"> • 50A - 400V From Generator Inlet • 15A - 230V From AC Coupled Solar Generator Skid • 1x Multi-pin Connector for Comms Between the Generator and Battery Skid
Inverter	3 x 48V/15KVA

ENGINE

Model	Yanmar 4TNV98T
Fuel	Diesel
Engine Speed	1500rpm
Noise Level at 7mt	63dBA

LITHIUM BATTERIES

Battery Nominal Voltage	51.2V	
Battery Nominal Capacity	5120Wh	
Battery Type	LiFePO4 (LFP)	
Batter Manufacturer	FBTech	
Battery Number	12	
Battery Management System	Yes	
Operating Temperature	Charge	0° ~ 45°
	Discharge	-10° ~ 55°

ALTERNATOR

Model	RFL Alternator RF4
Rated Output	50kVA
Frequency	50Hz
Voltage	400V
Insulation Class	H
Degree of Protection	IP23

CONSUMPTION ONLY ENGINE MODE

Tank Capacity	500L
Fuel Consumption - @75% Load	7L

SOLAR PANEL

Solar Array Maximum Output	8kW
Panel Size	500W
PV Type	Monocrystalline
Number of Panels	16

DIMENSIONS & WEIGHT

Dimensions (Packed Down)	L 2500 x W 1520 x H 2530mm
Dimensions (Deployed)	L 4490 x W 4762 x H 2211mm
Dry Weight (Generator Kid)	1,820kg
Dry Weight (Battery Skid)	2,220kg



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CONTROL PANEL EQUIPPED WITH:

Schneider HMI	<ul style="list-style-type: none">• Gen Run Hours & Fuel level Monitor• Battery SOC Monitor• Solar Power Input• Load Output
ON/OFF switch	Fitted
Earth leakage detection	Fitted
Emergency stop	Fitted

DISTRIBUTION PANEL

2x 15A 1Ph 230V 3 Pin GPOs

1x 15A 1Ph 230V 3 Pin Socket for AC Couple Solar Input

1x 63A 3Ph 400V Hardwire Box Outlet (MEN Link Connected)

STANDARD FEATURES

Generator backup for excess power needs and extended poor weather affecting solar generation

4G Telecommunications for complete remote programming, cloud monitoring and alarms

GPS tracking and cellular coverage

Customisable programs for generator run time/quiet time

Built in fuel tank

MPPT Solar charger model 150/85

Folding design for easy storage and transport

Durable Galvanised frame

Forklift pockets and tie-downs for transportation

Wind rating: 38 m/sec (136 km/h) in fully deployed position with outriggers engaged

IP54 fan filters, IP55 electrical cabinet

Makinex Renewables reserves the right to modify the technical specifications, items and design without notice. The images of the products are indicative for illustrative purposes only.



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