



MODEL: GEN20-40-S

# HYBRID POWER STATION

Integrated diesel, solar, battery storage and hybrid inverter – engineered in one secure CRIXLEI POWER unit.



**20**

KVA RATED

**41**

KWH BATTERY

**2375**

WP SOLAR

SOLD & SUPPORTED BY LIFT EQUIPT

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DESIGN STANDARDS

# A NEW RANGE OF SECURE INTEGRATED HYBRID POWER.

The GEN20-40-S combines a diesel generator, solar array, battery storage and a hybrid solar inverter inside one secure CRIXLEI POWER unit – built to power residences, reduce dependence on mains supply and cut consumption costs.

BENEFITS

- Integrated installation, convenient storage and transportation
- Simple operation and easy maintenance
- Seamless changeover between power sources
- High return on investment and quick payback
- Power and capacity expandable to user needs

WARRANTY

**BATTERY PERFORMANCE**

Throughout 1.6 MWh/kWh, or 3 years after manufacture.

**GENERATOR**

24 months after manufacture or 1,500 hours running time.

GENERAL SPECIFICATION

PARAMETER	VALUE
System Rated Output Power	20 kVA
Rated Power Factor	0.8 lagging
Rated Output Voltage	380V @ 50/60Hz, 3ph.4W
Min. Battery Storage	41.0 kWh
Max. Battery Storage	41.0 kWh
Max. Solar Power	2375 Wp
Output Terminals	Copper Busbar
Output Sockets	Max. 4 sockets
Expand Dimension (W·D·H)	2950 × 5500 × 3350 mm
Loading Dimension (W·D·H)	2950 × 1150 × 2250 mm
Net Weight	2,600 kg
Loading Capacity 20' GP	4 units
Loading Capacity 40' HC	8 units
Discharge Temp. Range	-20°C to 50°C

SOLAR PANEL

**2375W**

MAX POWER

- 475 Wp × 5 panels
- HJT high-efficiency cells
- Up to 21% efficiency

GENERATOR SET

**20 kVA**

PRIME POWER · 17 KW MAX

- KUBOTA / YANMAR / PERKINS
- 100 L bunded fuel tank
- Low fuel consumption

ENERGY STORAGE

**41 kWh**

LFP (LIFEPO<sub>4</sub>) BATTERY

- Pack model MF51100 · 5.12 kWh
- Rack voltage 51.2 Vdc
- ≥ 4000 cycles @ 80% DOD

HYBRID INVERTER

**One Unit**

SOLAR · BATTERY · GRID · GENSET

- MPPT input max. 26 kWp DC
- AC I/O 3P + N + PE
- Peak 20 kVA (0.8 lead → 0.8 lag)

POWER PRIORITY LOGIC

**01**  
HIGHEST  
**PV**  
Take load / charge

**02**  
SECONDARY  
**Battery**  
Take load

**03**  
BACK-UP  
**Generator**  
Take load / charge



CRIXLEI

UNIT NET WEIGHT

**GEN20-40-S**

**2,600 kg**

PV

BATTERY

**INVERTER**

CLOUD

LOAD

GENERATOR