

# SHUAA SOLAR ENERGY CONTAINER SERIES



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## IAN

IAN delivers advanced, environmentally responsible systems, empowering industries and communities with clean, efficient, and reliable infrastructure wherever it's needed.

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# SHUAA

## SOLAR ENERGY CONTAINER SERIES

### CLEAN ENERGY, ANYWHERE, ANYTIME

Shuaa is a turnkey, containerized solar energy system that delivers reliable, sustainable power to remote and mobile locations. With integrated storage and smart monitoring, it offers a plug and play solution for powering sensitive loads, supporting extra energy demands, reducing fuel consumption in genset-powered setups, and ensuring seamless operation during peak times. Ideal for locations with limited infrastructure, it provides cost savings, operational efficiency, fuel optimization, and environmental benefits, all while enhancing the reliability of critical systems.



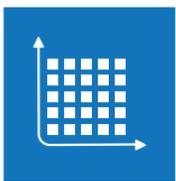
# DESIGNED FOR STATIONARY ENERGY STORAGE



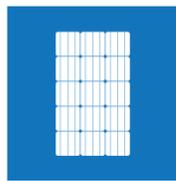
**Deployment Time**  
16-18 working hours



**Battery Cycle Life**  
26 years



**Surface Area**  
480 Msq



**Quantity**  
144 panels



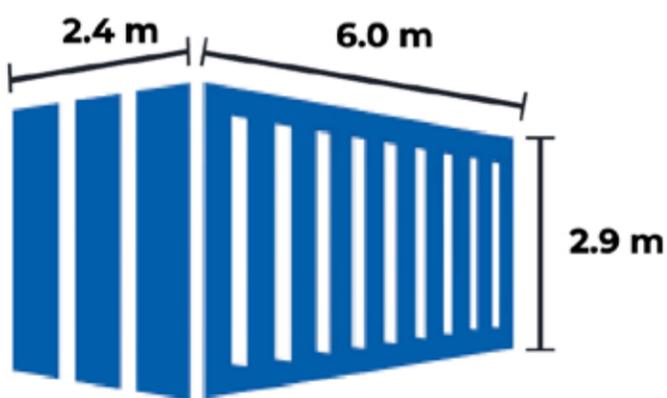
**Container Solution**  
All-In-One



**Maintenance**  
Maintenance Free



## CONTAINER MEASUREMENT



 < 20 t weight

# TECHNICAL SPECIFICATIONS

| Specification               | Value                                 | Notes                                       |
|-----------------------------|---------------------------------------|---|
| <b>Solar Panel Type</b>     | N-type TOPCon                         | High-performance bifacial modules           |
| <b>Container Type</b>       | 20-ft ISO                             | High Cube for rugged deployment             |
| <b>Total Solar Capacity</b> | 85.7 kWp                              | High-performance bifacial modules           |
| <b>Required PV Area</b>     | 480 m <sup>2</sup>                    | Lower PV area for the optimized model       |
| <b>Battery Type</b>         | Lithium-Ion (LiFePO <sub>4</sub> )    | High cycle life for longer-term performance |
| <b>Battery Capacity</b>     | 131 – 524 kWh usable                  | Model-dependent                             |
| <b>Cycle Life</b>           | 9500 cycles @ 80% DoD                 | Effectively lowers total ownership cost     |
| <b>Inverter Type</b>        | 2x40 kw                               | Scalable for efficient power management     |
| <b>Output Voltage</b>       | 230/400 V, 50/60 Hz                   | Selectable at deployment                    |
| <b>Deployment Time</b>      | 16-18 working hours                   | Fully pre-assembled and tested              |
| <b>Mounting Structure</b>   | SolSandBox™<br>Elevated Ballast Mount | Unique and container-integrated             |

# SHUAA SERIES - MODEL LINE

| Model                         | Solar Cap | Battery | Usable Energy | Use Case   |
|-------------------------------|-----------|---------|---------------|--|
| <b>Shuaa-85 (Basic)</b>       | 85.7 kWp  | 131 kWh | 105 kWh       | Economical choice tailored for dependable daytime power supply |
| <b>Shuaa-85 (Performance)</b> | 85.7 kWp  | 262 kWh | 210 kWh       | Optimized for reliable day and night performance               |
| <b>Shuaa-85 (Ultra)</b>       | 85.7 kWp  | 393 kWh | 315 kWh       | Extended battery capacity for reliable nighttime support       |
| <b>Shuaa-85 (Super Ultra)</b> | 85.7 kWp  | 524 kWh | 420 kWh       | Max storage for continuous off-grid power                      |



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# OPTIONAL ENHANCEMENTS

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- Reflective heat coating
- Self-powered auxiliary container utilities
- Custom mounting systems
- Hybrid Diesel Generator load-sharing interface
- EV charging station
- Remote Fire alarm monitoring
- Panel cleaning system

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# APPLICATION SECTORS

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- Agriculture: Irrigation, greenhouse operations, cold storage
- Water Management: Pumping, purification, desalination, and atmospheric water generation (AWG) American Wire Gauge
- Off-grid Communities: Community power solutions
- Disaster Response: Mobile energy supply for emergency operations
- Construction & Events: Temporary and mobile energy infrastructure
- Defense: Reliable, secure energy for field deployments
- Peak Demand Support: Stores solar energy for release during peak demand, reducing costs and supporting grid stability.



**CONTACT US TO EXPLORE OPTIONS, PRICING,  
AND INSTALLATION ASSISTANCE.**



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**BRINGING IDEAS & INNOVATION  
TO LIFE THROUGH TECHNOLOGY**