LVTOPSUN

LVTS-512314-G4H

LVTOPSUN New Generation Energy Storage System

Meet LVTOPSUN – Your Unstoppable Power!

16 51.2V 314Ah kWh



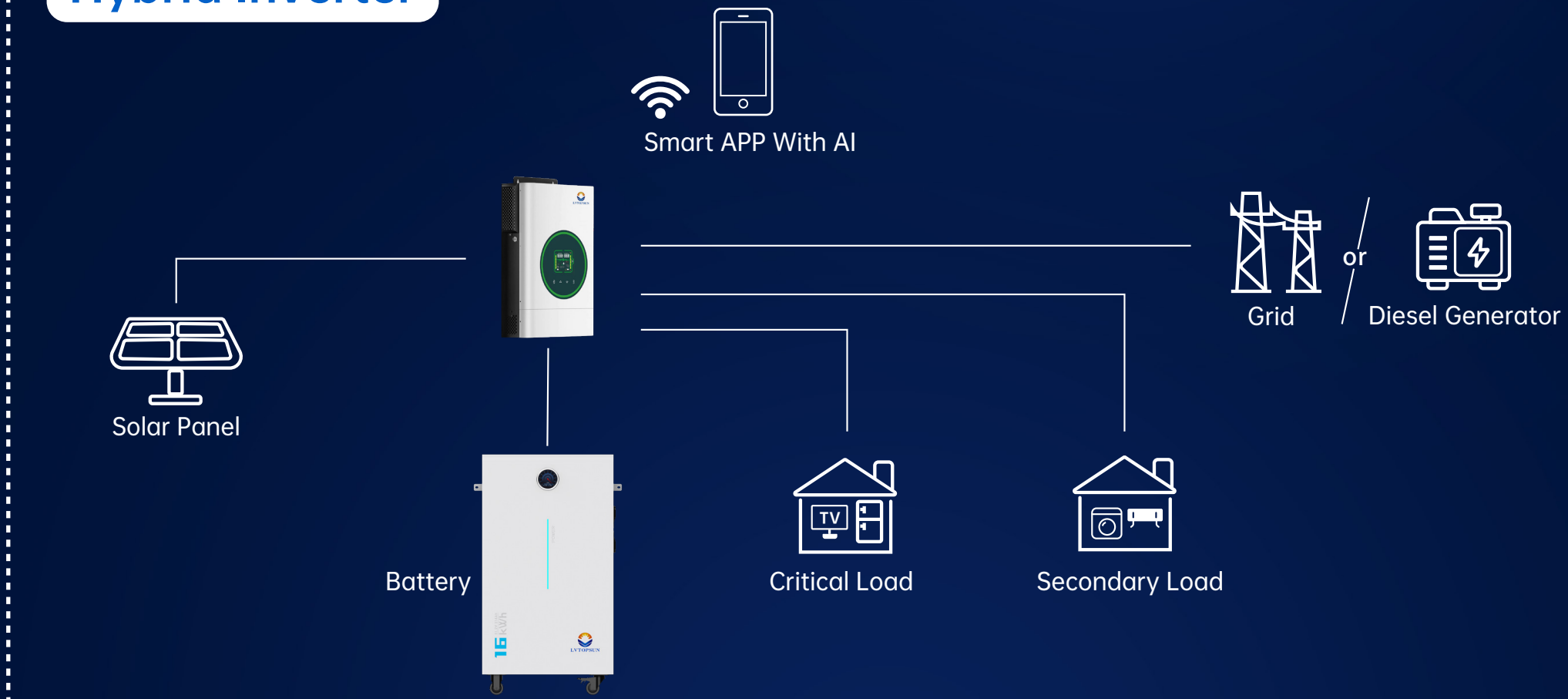
Basic Parameters

Model	LVTS-512314-G4H
Nominal Voltage	51.2 Vdc
Nominal Capacity	314 Ah
Battery Energy	16.07 kWh
Charge Current	150 A
Charge Power	7680 W
Discharge Current	200 A
Discharge Power	10240 W
Short Circuit Current	540 A
Communication	RS232、RS485、CAN
Scalability	Max 63 batteries in parallel
Product Features	Automatic sensing fire extinguishing device/Bluetooth/WiFi
Cell Technology	$LiFePO_4$, Lithium Iron Phosphate
Cycle life	8000 Cycles @ 90% DOD/25°C/0.5C
Display	SOC status indicator, LED indicator, LCD Display

Charge Temp. Range	-20-55°C
Discharge Temp.Range	-20-55°C
Dimension (WxDxH mm)	480x235x874 mm
Weight (Kg)	120 kg
Installation	Floor stand
Operating/Storage Humidity	⩽95%RH
Max Operating Altitude	⩽2000m
IP Rating	IP65
Warranty	10 years

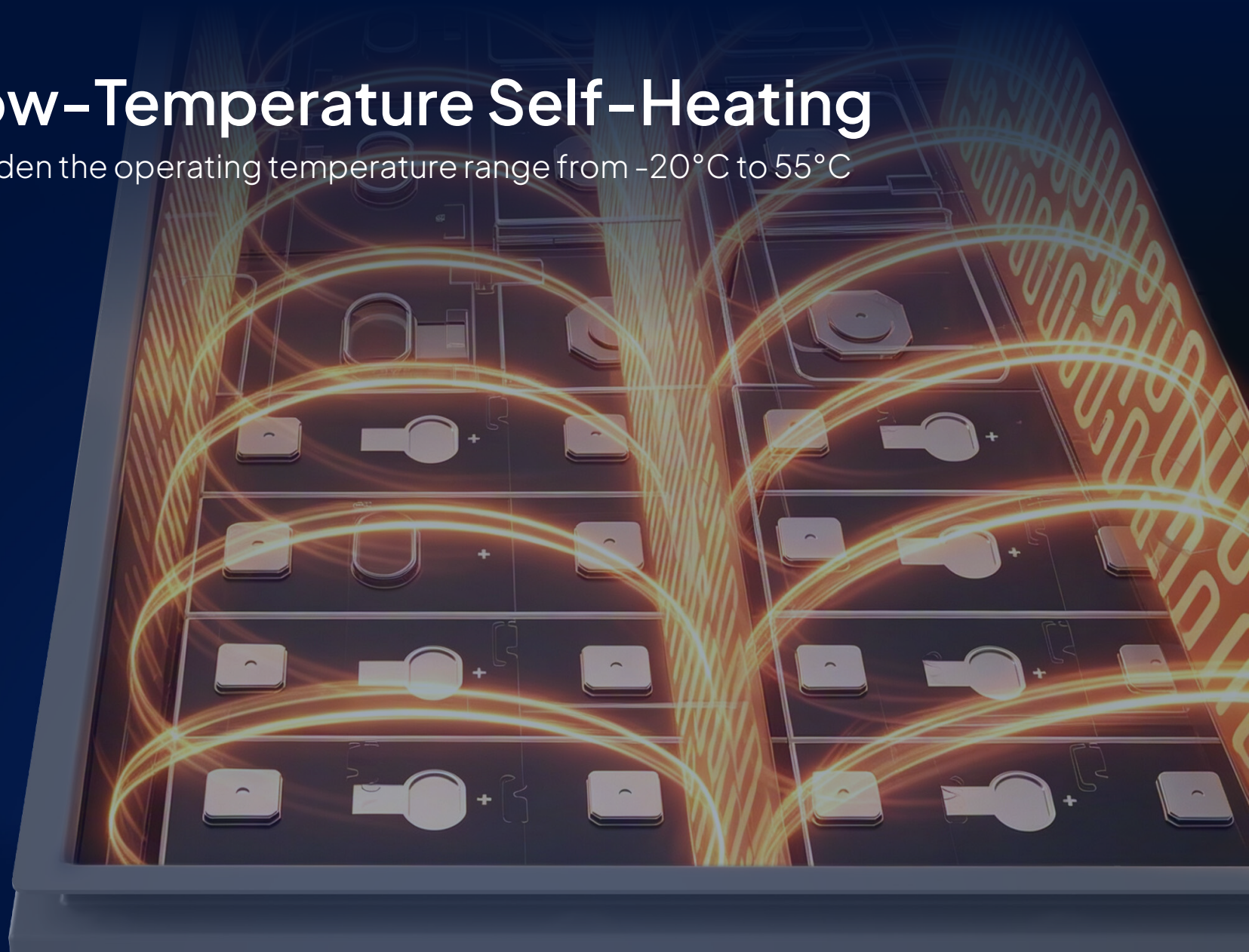

24H Uninterruptible Power

Hybrid Inverter

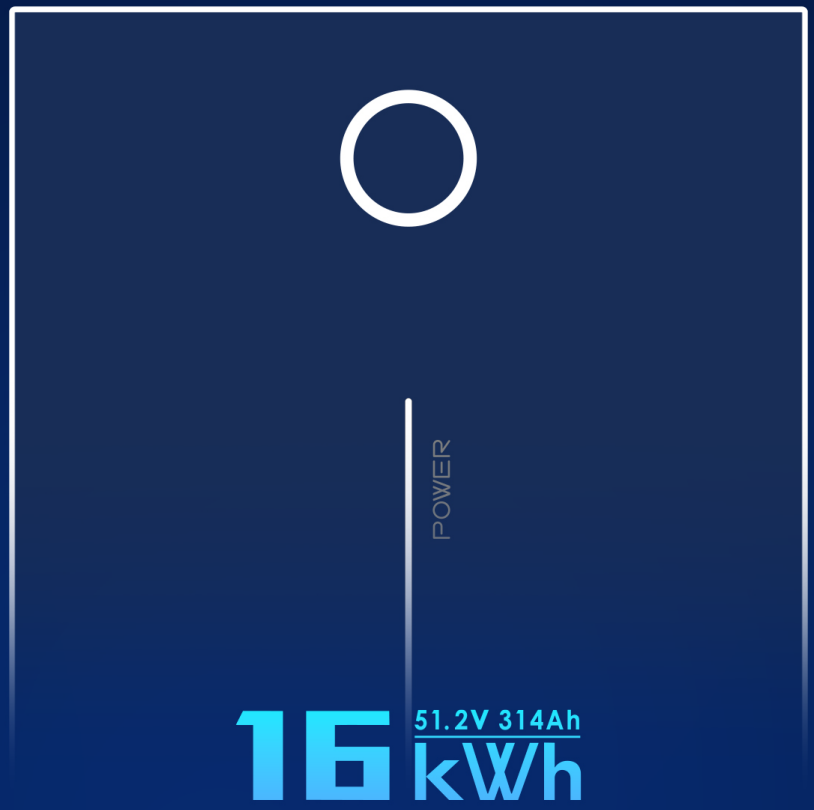


Low-Temperature Self-Heating

Widen the operating temperature range from -20°C to 55°C



Superior Thermal Stability
Normal Operation Guaranteed Even at 55 °C





High-grade Protection Design

IP65

- Electrostatic spray coating
- Deep drawing process



314Ah Large capacity battery



8000
Battery cycles (EOL 60%)

10
years Warranty

3-Layer Battery Safety Matrix

Structural protection

- Self-locking explosion-proof design
- IP65 waterproof protection

System protection

- Overcurrent protection
- Overvoltage protection
- Undervoltage protection
- Over-temperature protection
- Under-temperature protection

Active protection

- Intelligent fire-suppression module
- Real-time thermal monitoring
- Pressure relief protection



Smart Energy, Smarter Living

Household appliances use stable and worry-free electricity



Integrated Multi-functional Interface Meet Varied Needs

- Switch button
- Network cable port
- I/O Interface



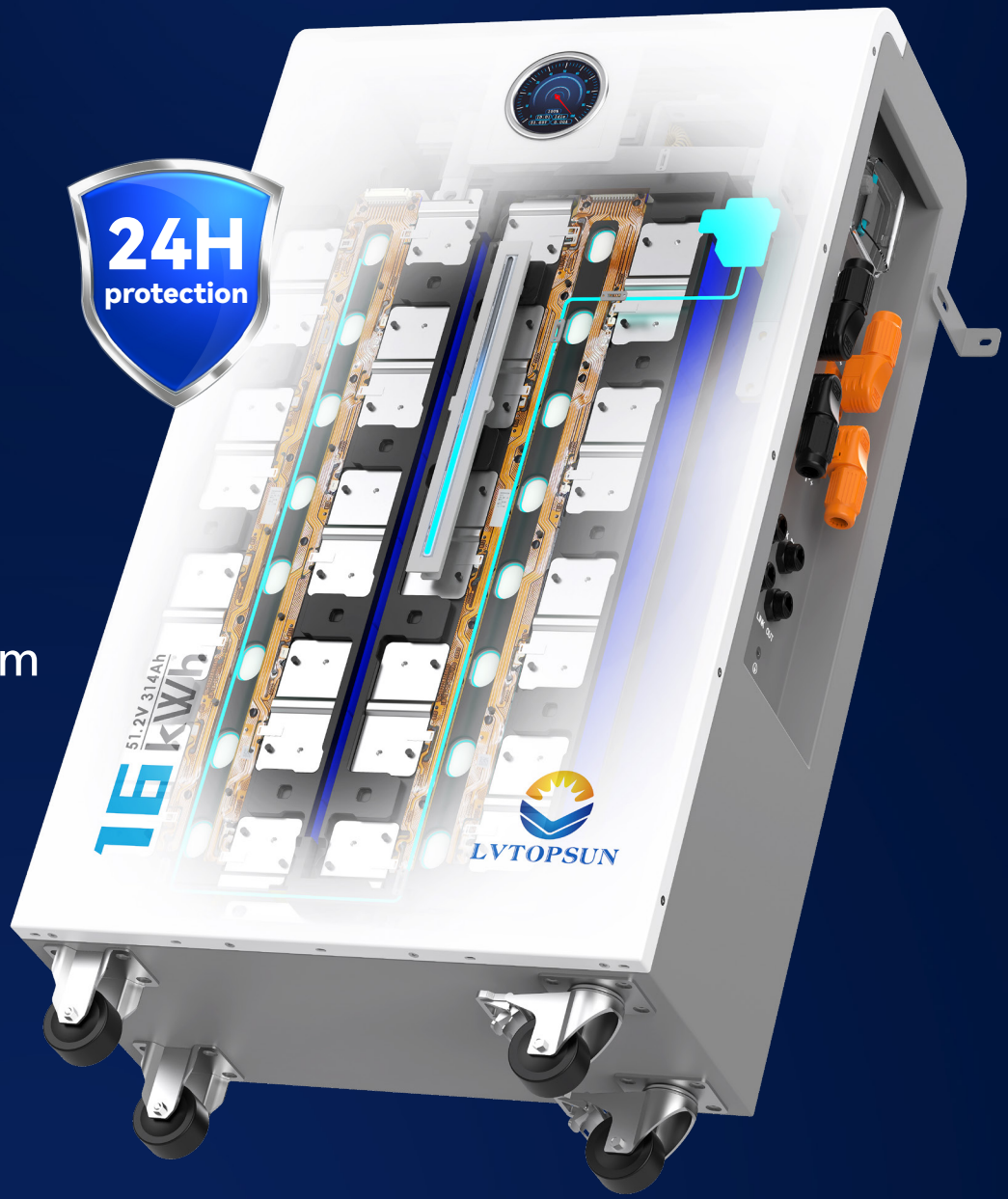
LCD color touch screen
Real-time data at a glance

67mm
Screen size



Guardian of Safety

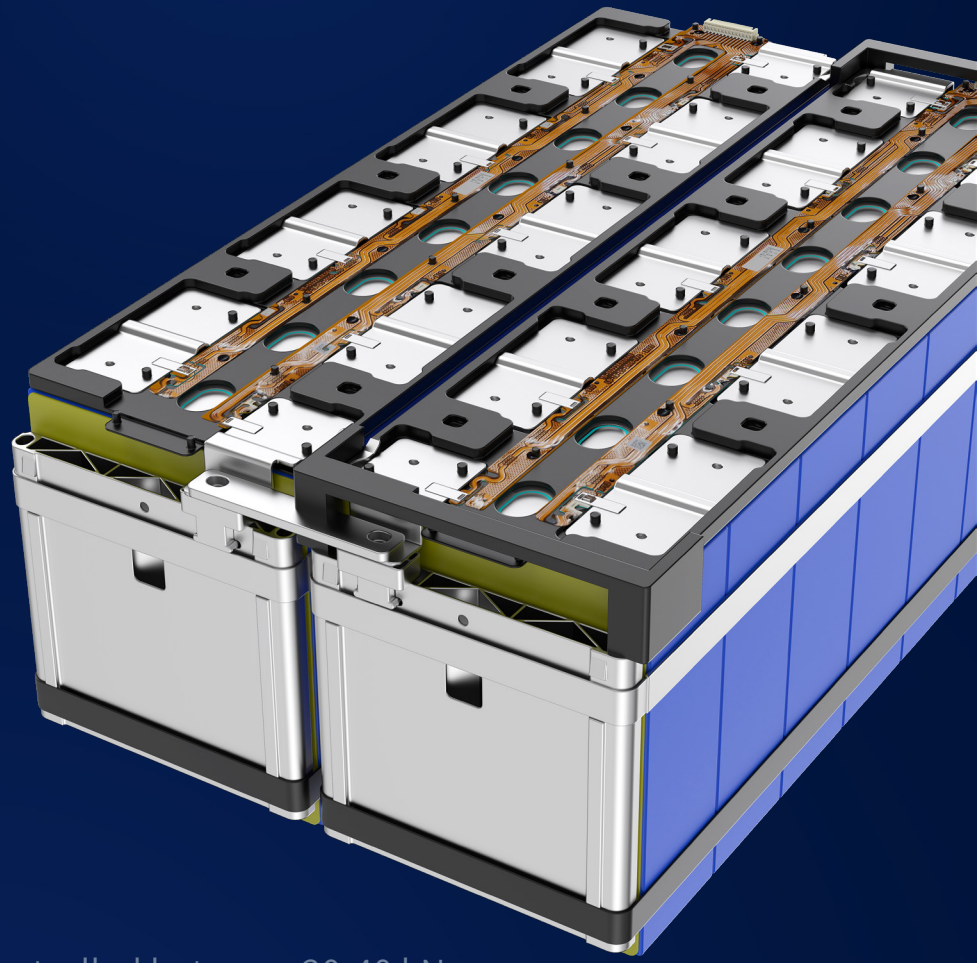
24/7 Real-Time Temperature Monitoring
and Integrated Automatic Fire-Suppression System



Durable

Safe and stable

Metal fixation system



The core advantages of aluminum end plates are:

1. Corrosion resistance and long lifespan.
2. High strength and reliable protection: The tensile strength of aluminum alloys such as 6061 and 6063 exceeds 310MPa, capable of withstanding pressures exceeding 300 kilograms, effectively resisting external impacts and vibrations, and protecting the internal cell structure from destabilization.

Core advantages of the bonding process:

1. Strong constraint and structural stability: When the bonding force is controlled between 20-40 kN, the battery cycle life can be extended by approximately 30%.
2. Anti-fatigue and long-term reliability: The steel strip is resistant to plastic deformation or fracture, maintaining a stable preload force over a long period of time. Furthermore, it exhibits good dimensional stability and minimal preload decay, ensuring the long-term integrity of the module structure.

On-Demand Scalable, Business-Ready
Max. parallel units: 63



Plug & Play Design
Less Need for Manual Operation

