

Dale NBN BESS

P120M0-241K, P60M0-241K

INTEGRATED SMART ENERGY MANAGEMENT (BMS/EMS)

- Real-time energy optimisation
- Supports peak load shifting
- Remote, 24/7 monitoring

ADVANCED SAFETY & RELIABLE DESIGN

- 5-tier safety system
- Stable LiFePO₄ batteries
- Certified, outdoor-rated build

HIGH EFFICIENCY & FLEXIBLE INTEGRATION

- Energy-efficient cooling design
- Solar & hybrid system ready
- Scalable power and capacity



The Dale NBN BESS (NBN-P30/P50/P100) is an integrated outdoor battery energy storage system designed for commercial and industrial applications, enabling businesses to store, manage, and optimise energy usage. It combines LiFePO₄ battery technology with an integrated BMS/EMS to support functions such as peak load shifting, distributed energy integration, and DC coupling with solar, improving energy efficiency and resilience.

Model	P120MO-241K	P60MO-241K
Battery Cell Type		
Cell Type & Capacity	LiFePO4 - 314Ah	
Battery Module Type	1P20S	
System Capacity Range	241kWh	242kWh
AC Side On-Grid Parameters		
Grid Type	3P4W	
Charging/Discharging Power	120kW	60kW
Rated Grid Voltage	AC400V ±15%	
Frequency Range	50(±5)Hz / 60 (±5)Hz	
Rated AC Output Current	173A	87A
Power Factor	0.8 (Leading) ~ 0.8 (Lagging)	
Harmonics	≤3% (@rated power)	
General Parameters		
Dimension (W*H*D)	1686mm*2093mm*1392mm	
Max. Weight	2600kg	
Ingress Protection	IP55(Battery Cabinet), IP54 (Electrical Cabinet)	
Cooling Method	HVAC (Battery cabinet) & Forced air cooling (Electrical cabinet)	
Fire Fighting System	Combustible gas detection, water fire suppression, Novec1230 & (optional) aerosol fire extinguisher	
Anti-Corrosion Grade	C3	
Relative Humidity	0-95% (non-condensing)	
Operating Temperature	-30°C ~ 50°C	
Operating Altitude	<3000m	
Noise Emission	≤65dB	

General Parameters	
Communication Interface & Protocol	Rs485, Ethernet; Modbus RTU, Modbus TCP/IP
Warranty	5 years, (can be extended to 10 years)
Certifications	CE(IEC61000,IEC62477), IEC62619,IEC62109,UN3480,CEI021,CEI016, VDE2510 Converter: G99, VDE4105, EN50549, AS/NZS 4777, CE(IEC61000, IEC62477), IEC62109, NC RfG, NRS097,VDE4110(on going) Cell: IEC62619, UL1973, UL1642, UL9540A PACK: UN38.3

Get in touch with our team today to discuss your requirements

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DALE

POWER SOLUTIONS

Looking for something more bespoke?

With our own purpose-built, manufacturing facility, we're a one-stop shop for our customers providing design consultancy, manufacture and ongoing maintenance for our products.

What we do

- An end-to-end service - design, manufacture, install, commissioning and servicing
- Experts in customised UPS, generator, and BESS solutions
- In-house mechanical and electrical design capability
- Solutions for any environment, application and location
- Industry-specific solutions including WIMES specified and PADS Approved
- In-house project management team to manage the development and delivery of your product for exactly when you need it

Get in touch with our team today to discuss your requirements.

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Your power in safe hands