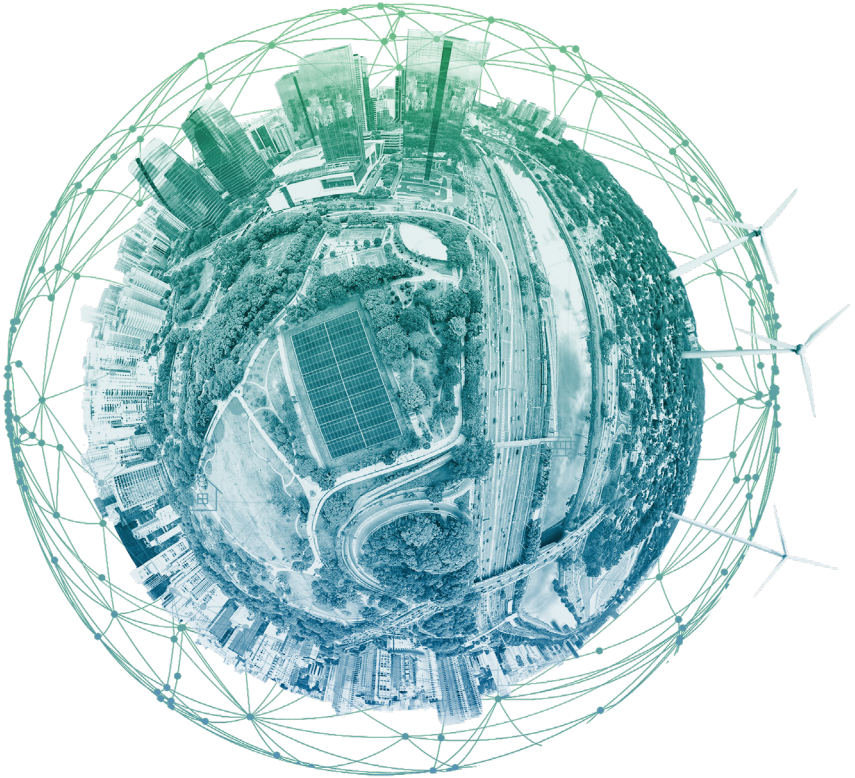




durapower



LEADING TECHNOLOGY
POWERING THE FUTURE, TODAY

Durapower

Powering Electric Vehicles and Renewable Energy Globally Since 2009

Durapower Group specialises in research, design, manufacturing, and system integration of advanced lithium battery technology for automotive and energy storage systems.

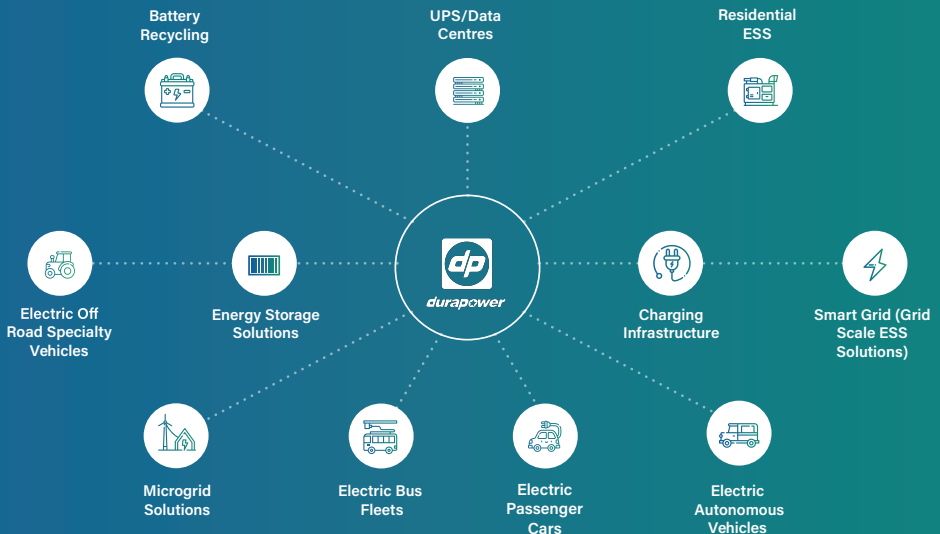
Durapower has a global network of customers in the automotive and energy storage sectors in 24 countries. The company is a tier-one supplier to vehicle manufacturers and has its battery systems integrated in thousands of Hybrid Electric Vehicles (HEVs)/ Plug-in Hybrid Electric Vehicles (PHEVs) and Electric Vehicles (EVs) in 49 cities in China, Europe, Japan, India and Southeast Asia.

Since its establishment, the group has achieved a remarkable 100 per cent safety track record with more than 1 billion kilometers (km) of operational mileage for commercial electric vehicle applications and

provides energy storage solutions (ESS) for renewable micro grid, commercial and industrial, and utility-scale applications. Such ESS can be deployed at various scales including residential energy storage of as low as 2 kWh, uninterruptible power supply as backup power of 10 kWh to larger scale of mega-watt level storage solutions, and are available on integrated package solutions inclusive of control systems, thermal management and fire safety, inverters and environmental protection.

Durapower offers closed loop, end to end solutions for EV and ESS ecosystems, from our own manufactured cells, and fully integrated system, to charging infrastructure and recycling of our battery systems, powering the present and future of e-mobility and renewable energy.

Durapower Batteries – Wired to Your Needs



Durapower provides safe, high performance, lightweight and durable battery ESS for clean and renewable energy. Our growing list of customers includes leading blue chip companies, system integrators, vehicle original equipment manufacturers (OEMs), fleet operators, independent power producers (IPPs) and grid operators.



Safe

In the clean and green automotive segment, Durapower systems have covered more than 1 billion km in operational mileage globally and have perfect safety track records. Our battery cells and systems are designed with safe performance as a primary consideration.



Long Lifespan

Durapower provides reliable long life cycle battery solutions, resulting in lower operational cost and lower total cost of ownership (TCO).



Fast Charging Capability

Durapower batteries have a well-balanced performance portfolio and high charging capability while maintaining lightweight and compact features. Durapower battery systems can be designed for opportunistic fast-charging and can be charged within minutes.



Lightweight and Compact

Durapower battery cells are lightweight and compact, resulting in more energy-efficient EV fleet operations, and better space utilisation in today's land-scarce environment for other stationary ESS applications. For the same weight loading and space, Durapower ESS provide a higher capacity and performance solutions.



Scalability

The modular design of our battery products ensures ease of use, service, and scalability for varied applications, from mobility to stationary projects, and from small-scale kilowatt hour (kWh) to several hundred megawatt (MWh) grid-scale projects.

Containerised Energy Storage Solution



	NMC 30 Ah	LFP 280 Ah
Racks (kWh)	100	194
20ft Container (MWh)	1.5	1.6
40ft Container (MWh)	2.9	3.3
System Voltage	576-797	540-792 1020-1489
Discharge C rate*	1C Continuous 1.5C peak	0.5-1.0C Continuous



Black Start

Restoring an electric power station to operation after a total or partial shutdown.



Peak Shaving

Shaving maximum demand by delivering power to the load and restoring energy to the ESS during the off-peak periods to save huge electricity costs.



Ancillary Service

Rapid response time and emission free operation in restoring the balance between energy supply and demand in the grid system.



EV Charging

Durapower ESS can be integrated with on or off grid renewables to provide back up and power for EV charging, reducing load on local grid systems.

Commercial & Industrial



Models	Modules			
	High Power	Hybrid	High Energy	
			NMC	LFP
Cell Capacity (Ah)	28	30	48	280
Module Capacity (Ah)	56	150	96	280
Energy (kWh)	6.22	8.9	10.66	21.5
Nominal Voltage (V)	111	59	111	76.78
Operating Voltage (V)	84-125	48-66	84-125	60-87.6
Dimension (W x L x H, mm)	234 x 790 x 161.5	572 x 625 x 140	234 x 790 x 161.5	588.5 x 880 x 240
Weight (kg)	<55	<78	<63	<100
Peak C Discharge Rate (C)	2.5	1.5	1.2	1
Maximum C Rate	4	1	1.5	1



Models	Rack			
	High Power	Hybrid	High Energy	
			NMC	LFP
Cell Capacity (Ah)	28	30	48	280
Rack Capacity (Ah)	56	150	96	280
Energy (kWh)	37.3	106	63.9	322.6
Nominal Voltage (V)	666	710	666	1152
Operating Voltage (V)	540-729	576-797	540-729	900-1314
Dimension (W x L x H, mm)	380 x 800 x 1600	652 x 685 x 2269	380 x 800 x 1600	1390 x 970 x 2405
Weight (kg)	410	<1200	460	<1500
Peak C Discharge Rate (C)	2.5	1.5	1.2	1

UPS & Telecom Applications



Models	DPRT-50	DPRT-75	DPRT-100	DPRT-150
Module Capacity (Ah)	50	75	100	150
Energy (kWh)	2.4	3.6	4.8	7.2
Nominal Voltage (V)	48	48	48	48
Dimension (W x L x H, mm)	640 x 509 x 122	530 x 450 x 260	600 x 500 x 260	500 x 470 x 330
Weight (kg)	25	38	51	75
Communication	CAN 2.0b	CAN 2.0b	CAN 2.0b	CAN 2.0b

- ✔ Reliable back up power supply
- ✔ Fast discharge capability

Electric Vehicles

Battery systems can be customised for any type of electric vehicle. Durapower battery cells are tested and proven safe and high performing in the harsh operational conditions of the commercial vehicle segments (such as public buses and port trucks). Examples of applications are listed as follows:

Electric Buses (6/12/18 meters)



Type	Electric Bus
Energy (kWh)	180 - 400
Nominal Voltage (V)	450 - 700
Dimension (W x L x H, mm)	Custom
Cooling Method	Air/ Liquid
Charging Method	Opportunistic, Fast, Depot
Charging Standard	IEC, GB/T

Industrial Vehicles (Forklift, Tractor, AGV)



Type	Automated Guided Vehicle
Energy (kWh)	180 - 300
Nominal Voltage (V)	666
Dimension (W x L x H, mm)	Custom
Cooling Method	Air/ Liquid
Charging Method	Automated, Fast, Depot
Charging Standard	IEC, GB/T

Marine Applications (Ferry, Outboard, Vessels)



Type	Marine
Energy (kWh)	15 - 1000
Nominal Voltage (V)	500 - 900
Dimension (W x L x H, mm)	Custom
Cooling Method	Air/ Liquid
Charging Method	Opportunistic, Fast, Depot
Charging Standard	IEC, GB/T

Electric Cars (BEVs, HEVs, PHEVs)



Type	Electric / Hybrid
Energy (kWh)	12
Nominal Voltage (V)	120 - 400
Dimension (W x L x H, mm)	Custom
Cooling Method	Natural / Air / Liquid
Charging Method	Quick Swap / Fast Charge
Charging Standard	IEC, GB/T, Custom

Light Vehicles (Scooters, Tuk Tuk)



Type	Tuk Tuk
Energy (kWh)	7.4
Nominal Voltage (V)	74
Dimension (W x L x H, mm)	542 x 355 x 323
Weight (kg)	75
Cooling Method	Natural/ Air
Charging Method	Fast, Depot
Charging Standard	Industrial, Custom

* Other technical specifications may be readily available or customizable. Please contact us for a solution that will suit your needs.

Our Global Market Presence



**24 COUNTRIES,
49 CITIES & GROWING**

Durapower Group of Companies

Headquarters

Singapore

66 Kallang Pudding Road #05-02, Singapore 349324

China

No 12, Fuhua Road, Changshu Economic and Technological Development
Zone P.C: 215513

Thailand

No. 75/19 Ocean Tower 2, 16th Floor, Sukhumvit Road, Soi 19 (Wattana),
Klongtoey Nua Sub-District, Wattana District, Bangkok

Europe

Automotive Campus 30, 5708JZ,
Helmond, The Netherlands

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