

LEADING TECHNOLOGY
POWERING THE FUTURE, TODAY

Durapower

Powering Electric Vehicles and Renewable Energy Globally since 2009

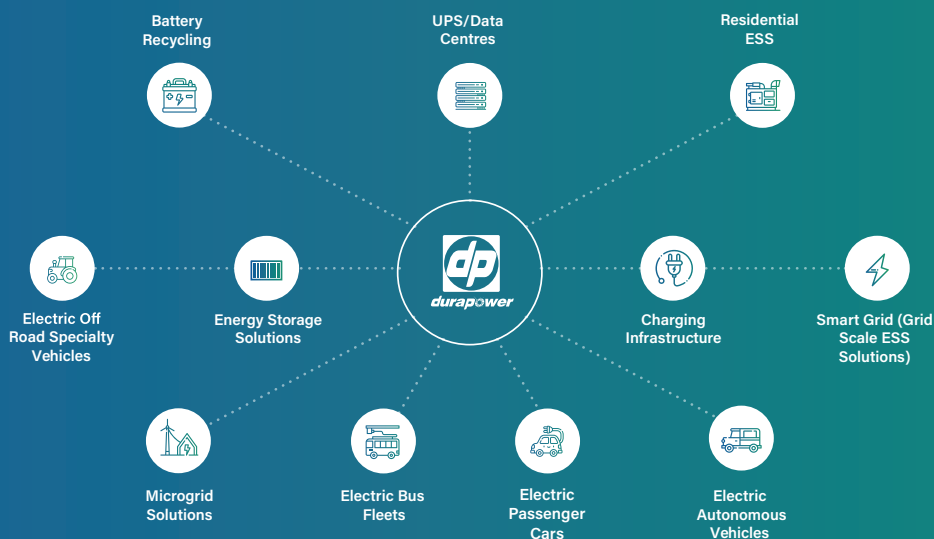
Durapower Technology Group specializes in research, designing, manufacturing, and system integration of advanced lithium battery technology for automotive and energy storage systems.

Durapower has a global network of customers in the electric automotive and energy storage sectors in countries including China, Europe, Japan, India and South East Asia. The company is a tier-one supplier to vehicle manufacturers and has its battery systems integrated in thousands of HEV/PHEV and EVs in over 20 cities in China, Europe, Japan, India and Southeast Asia countries. Since its establishment, the group has achieved a remarkable 100% safety track record with more than 100 million km of operational mileage for

electric automotive applications and provides energy storage solutions (ESS) on renewable micro and smart grid 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 20 kWh to larger scale of mega-watt level storage solutions and can be installed for on or off Grid applications.

Durapower offers a closed loop, end to end solutions for the EV and ESS ecosystems, from our own manufactured cells, 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 solutions for the clean and renewable energy. Durapower has been powering the global electric vehicles and renewable energy since 2009, with strong track records in safety and performance. Our growing list of customers includes leading blue chip companies, system integrators, vehicle OEMs, fleet operators, IPPs and grid operators.



Safe

Safety is our first priority. In the clean and green automotive segment, Durapower systems have covered more than 100 million km in operational mileage globally with strong safety track records. Our cells and systems are designed with safety features and considerations in mind.



Long Life Cycle

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



Fast Charging Capability

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



Lightweight and Compact

Durapower cells are lightweight and compact, which are made for more energy efficient fleet operations in the context of electric vehicles, and allow a more efficient space planning in today's land scarce resources for all other stationary ESS applications. For the same weight loading and space, Durapower ESS solutions provide a higher capacity and performance solutions.



Scalability

The modularity design concept of our battery products ensures an ease of use, service and scalability for varied applications, from mobility to stationary project, and from small scale kWh to MWh grid scale solutions.

Containerized Energy Storage Solution



Black Start

Restoring an electric power station to operate without external electric power transmission network to recover from a total or partial shutdown.



Peak Shaving

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



Frequency Regulation

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/off grid renewables to provide back up and power for EV charging, reducing load on local grid systems.



Modules			
Models	DPC1-100	DPC1-120	DPC1-150
Cell Capacity (Ah)	100	120	150
Energy (kWh)	5.9	71	8.9
Nominal Voltage (V)	59.2	59.2	59.2
Operating Voltage (V)	48~66.40	48~66.40	48~66.40
Dimension (W x L x H, mm)	572 x 524 x 140	572 x 524 x 140	581 x 625 x 140
Weight (kg)	60	72	89
Communication	CAN 2.0b	CAN 2.0b	CAN 2.0b
Maximum C Rate	4	1	1.5



Rack			
Models	DPR10-100	DPR12-120	DPR12-150
Module Number	10	12	12
HV Box	1	1	1
Module Energy (kWh)	5.9	71	8.9
Nominal Voltage (V)	592	710	710
Operating Voltage (V)	480~664	576~800	576~800
Dimension (W x L x H, mm)	624 x 525 x 1850	625 x 530 x 2200	625 x 640 x 2200
Weight (kg)	680	955	1100
Max C Rate	4	1	1.5



Application						
Proposed Battery Module	Time Shifting	Island/ Microgrid	T&D	Black Start	Renewable Integration	E-Car Charging
2.40 kWh (48.1V, 50Ah)				●		●
5.92 kWh (59.2V, 100Ah)			●	●		●
7.10 kWh (59.2V, 120Ah)	●				●	
8.88 kWh (59.2V, 150Ah)		●	●		●	



Customizable platforms available for different functions

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

Residential ESS



Models	DPS1-50	DPS1-75	DPS1-100	DPS1-150
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 (L x W 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



Ease of installation

Electric Vehicles

Battery systems could be customized for any type of vehicle. Durapower battery cells are tested and proven safe. In the automotive projects, our products have covered more than 100 million km in operational mileage globally with zero battery-related incidents. Examples of applications are listed as follows:

Light Vehicles (Scooters, Tuk Tuk)



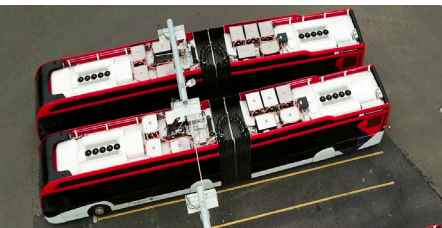
Type	Tuk Tuk
Energy (kWh)	7.4
Nominal Voltage (V)	74
Dimension (W x L x H, mm)	542 x 355 x 323
Weight (kg)	75
Cooling Method	Natural/ Air
Charging Method	Fast, Depot
Charging Standard	Industrial, Custom

Electric Cars (BEVs, HEVs, PHEVs)



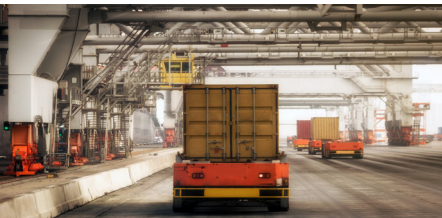
Type	Electric	Hybrid
Energy (kWh)	12-60	10-30
Nominal Voltage (V)	80-300	300-500
Dimension (W x L x H, mm)	Custom	Custom
Cooling Method	Natural/ Air/ Cooling	Air/ Liquid
Charging Method	Quick Swap/ Fast Charge	HEV/ PHEV
Charging Standard	IEC, GB/T, Custom	IEC, GB/T

Electric Buses (6/12/18 meters)



Type	Electric Bus
Energy (kWh)	180 - 288
Nominal Voltage (V)	600
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 - 288
Operating 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

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

Our Global Market Presence



18 COUNTRIES,
40 CITIES & GROWING

Durapower Group of Companies

Headquarters (Singapore)

66 Kallang Pudding Road #05-02, Singapore 349324

Tel: +65 68460171

China

No 12, Fuhua Road,

Changsu Economic and Technological Development Zone

PC: 215513

Europe

Automotive Campus 30, 5708JZ,

Helmond, The Netherlands

SINGAPORE • CHINA • THAILAND • EUROPE