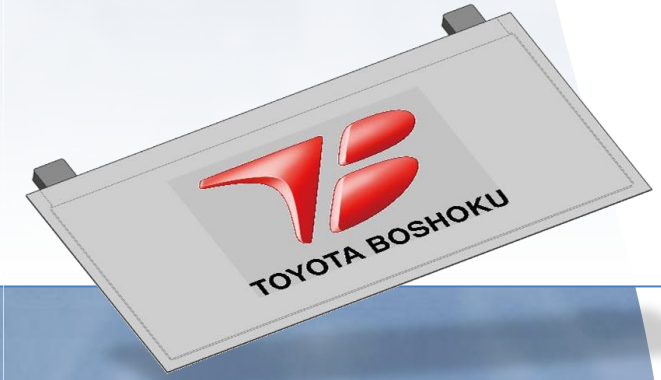
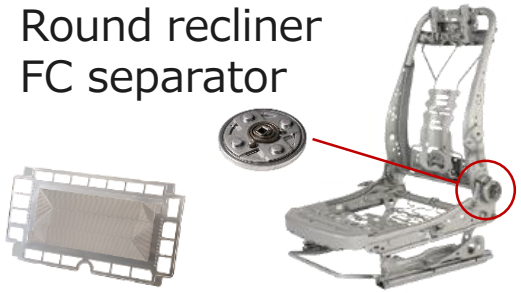
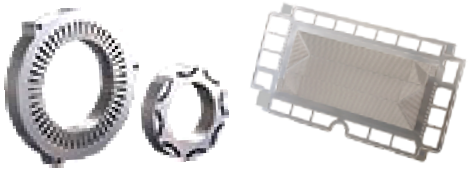


TOYOTA BOSHOKU Lithium-Ion Battery Supplemental Information

TOYOTA BOSHOKU

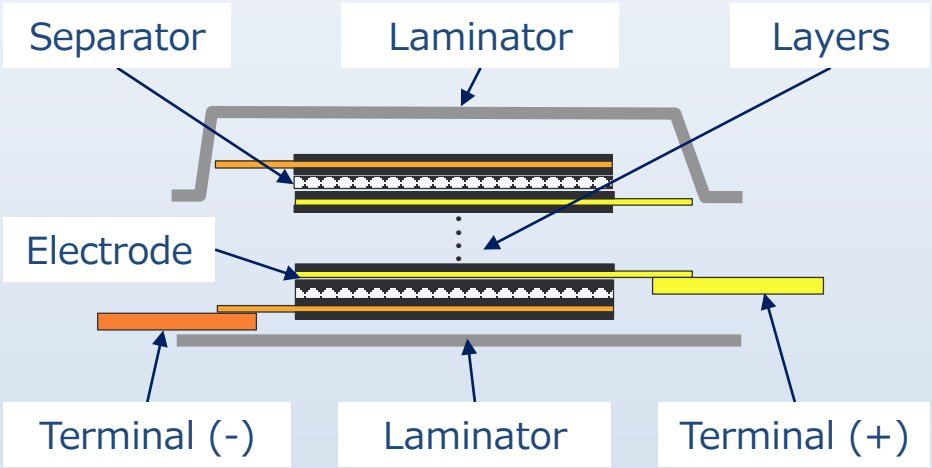
Toyota Boshoku's actions for Li-ION Battery

Toyota Boshoku products	Core technologies	Applications for LIB
Filters	■Filtration ■Ultra-fine-fiber production	■**Separator**
Round recliner FC separator 	■Precision fine die production ■Precision pressing	■**Assembly**
E-related products (Motors, FC) 	Validation facilities・Engineering Motor bench Batt. validation bench	■**Battery validation (Performance ・Durability)**

Structure

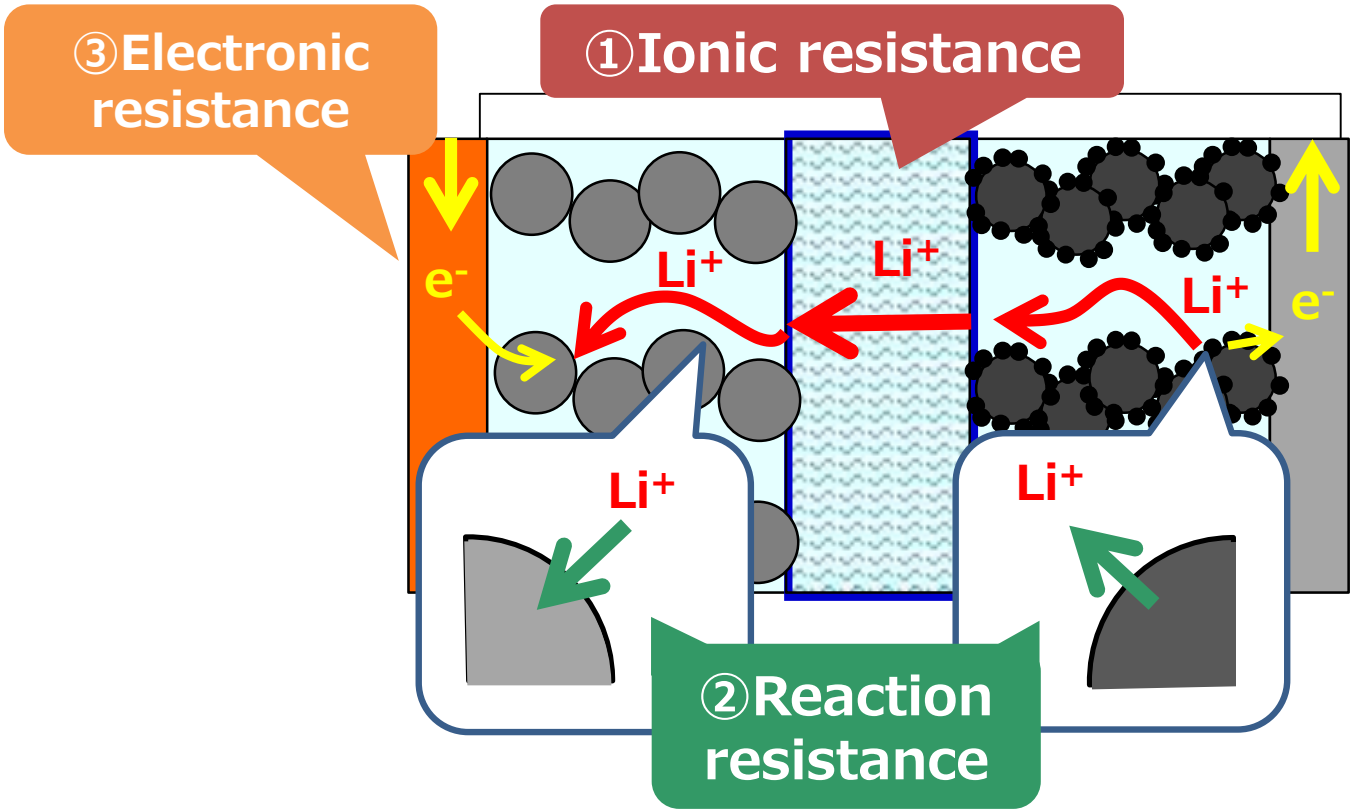
Pouch type LiB

Section cut image



Mechanism for high output

Three resistive components in the battery

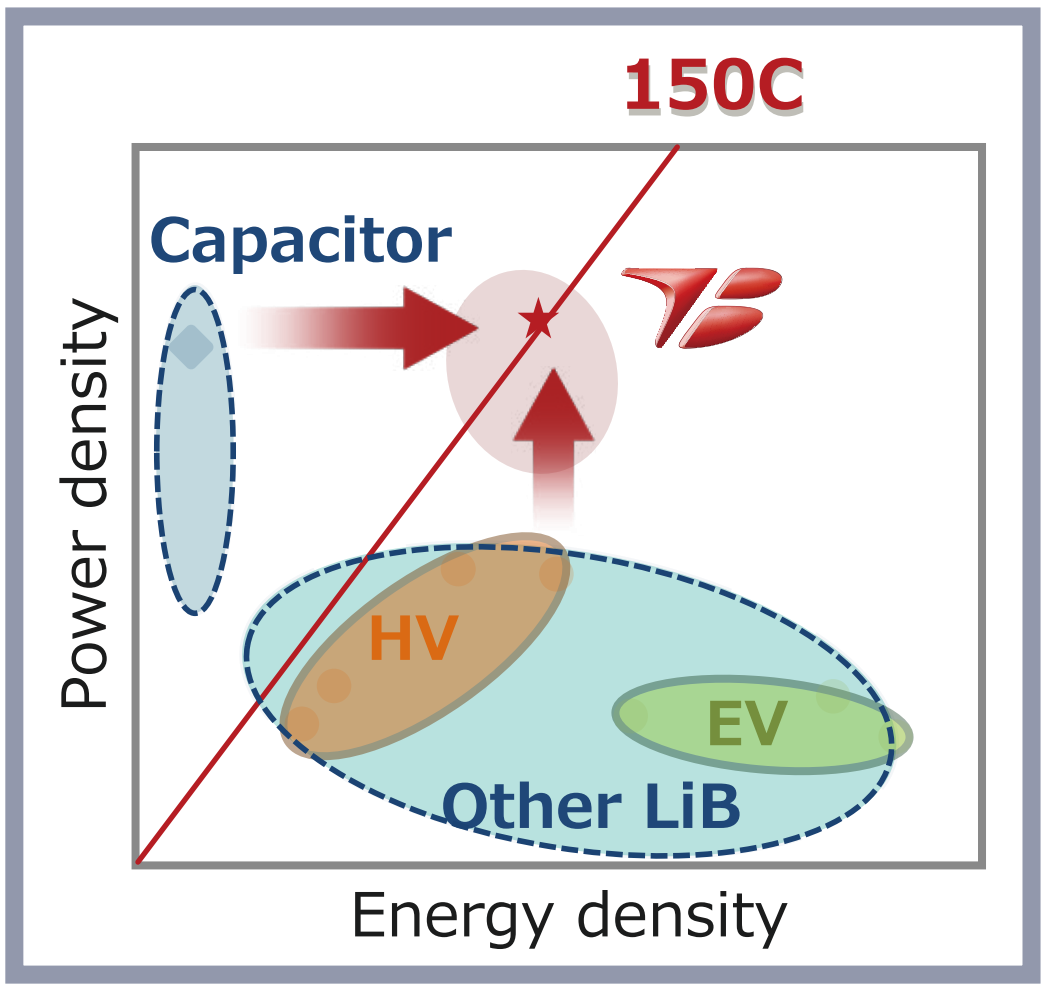


Our separator realizes high output with smaller ionic resistance

Cell : High Power & Durability

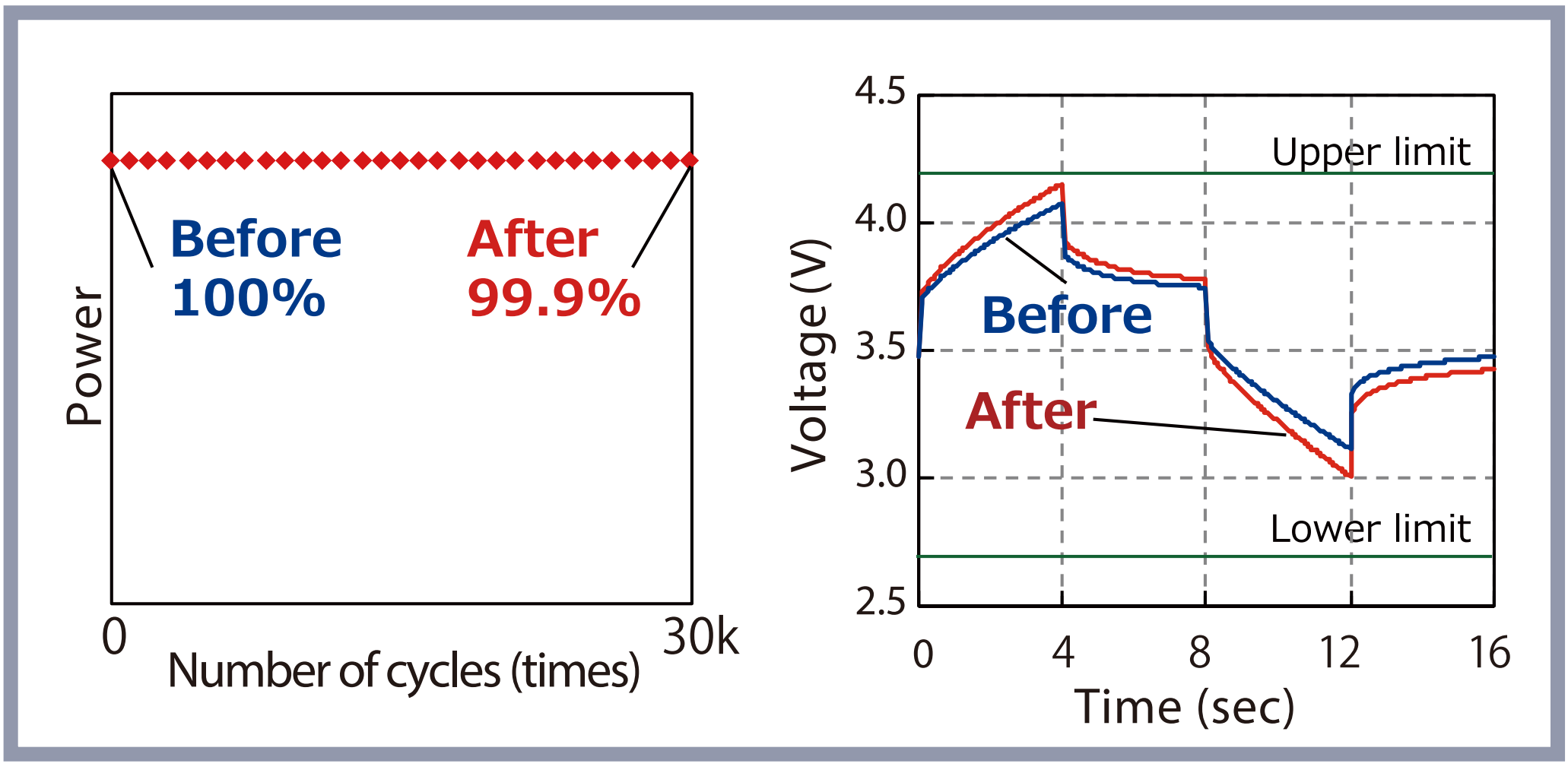
High power :

150C
at equal energy density
HV LiB



Durability at 150C :

Power retention 99.9%
after 30k cycles



Package : Small & Light

Small :

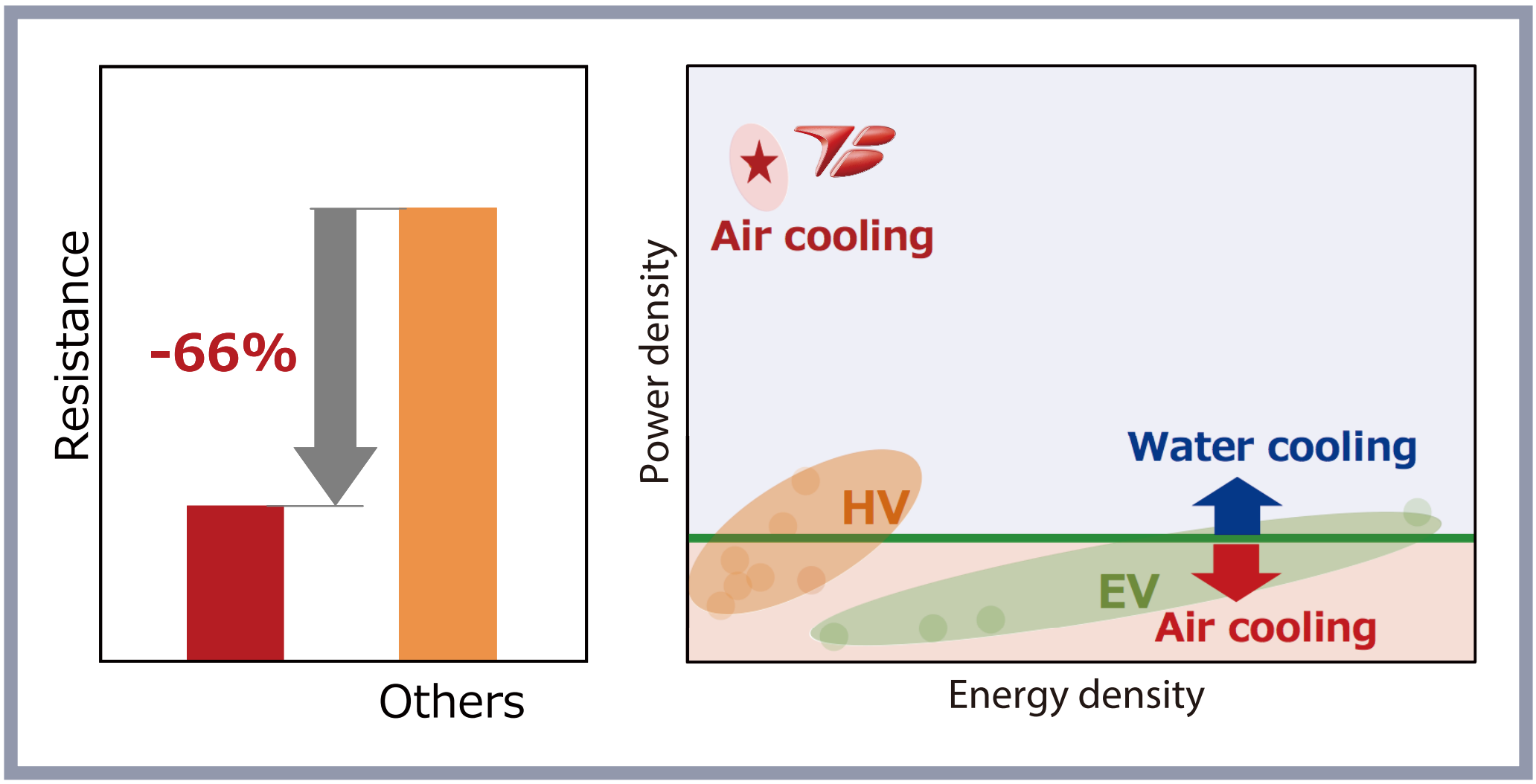
Downsize by half

Light :

25% weight reduction

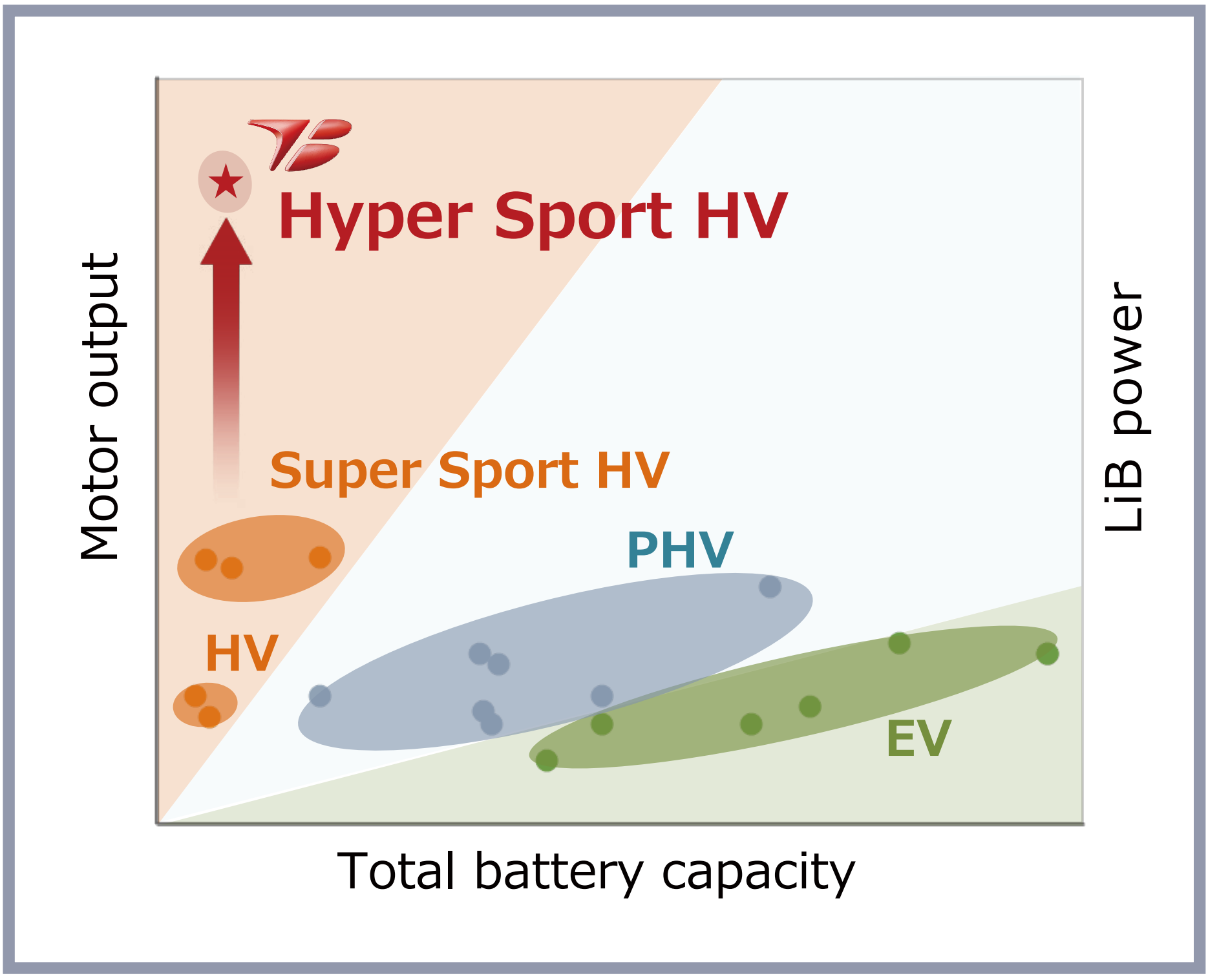
Flexible installation :

Low resistance ➡ Air cooling



Proposals : For Hyper Sport HV

For Hyper Sport HV :

Repeatable full motor output

with high power & durable LiB