



Dynamic Leadership in Innovative Rechargeable Lithium-ion Battery Solutions

TWS, a dynamic and global industry leader focused on providing innovative Lithium-based battery technology solutions, was founded in 1998. With 25 years development, we have now grown to over 2,000 global employees to service the worldwide markets. TWS always follows the practice of customer-focused values and we're committed to providing innovative solutions in response to the rapid growth of new lithium-ion battery applications.

A Better Life through Innovation

Vision: Create a better life for people

Mission: To be the industry leader in rechargeable energy solutions

Founded in 1998	Tech Centers 7	Factories 4	Annual production capacity 13 GWh
Patents 80+	Active SKUs 500+	Batteries Sold 300,000,000+	ISO & IATF Certified

TWS Technology





v2023.3







TWS provides modules battery solutions with both standard and customized module design for many years with significant volumes supplied to automotive customers, offering flexibility in battery pack design with cost advantages with or without BMS and option for local assembly.

Product advantages



Ultra-long cycle life

Optimal mechanical light weight design against the risk of cell thermal runaway

Options for local assembly with short lead times

Application















TWS Standard Modules: NCM

Both TWS-1P12S-139-NCM and TWS-1P4S-177-NCM are compact standard cell-stack VDA modules with built-in low leakage & intrinsic safety which target for EV applications.

Picture					
Model	TWS-1P 12S -139-NCM	TWS-1P4S-177-NCM			
<u>Parameters</u>					
Cell	139Ah NCM	177Ah NCM			
Configuration	1P 12S	1P 4S			
Capacity (Ah, @0.33C)	139	177			
Nominal Voltage (V, @0.33C)	44.76	14.96			
Maximum continuous charge current (A)	164	174			
Maximum continuous discharge current (A)	274	261			
Energy (Wh, @0.33C, 25°C)	6221	2647			
Weight (Wh/kg)	30.5	12.0			
Energy density (Wh/kg)	203.9	220.5			
Dimensions (mm, L*W*H)	590.0*225.0*109.0 (VDA standard & for MEB platform)	355.0*151.5*109.0 (VDA standard)			
General specification					
Charging temperature	-20°C ~ 55°C				
Discharging temperature	-30°C ~ 55°C				
storage temperature	- 30°C ~ 55°C				
Dielectric strength	2700V DC				
Insulation resistance	≥ 500 MΩ				
Voltage difference of sets	≤ 20 mV				

TWS Standard Modules: LFP

Both TWS-1P8S-50-LFP and TWS-1P9S-50-LFP are compact cell-stack modules with built-in low leakage & intrinsic safety which target for ESS and Material Handling applications.

Picture					
Model	TWS-1P8S-50-LFP	TWS-1P9S-50-LFP			
<u>Parameters</u>					
Cell	50Ah LFP	50Ah LFP			
Configuration	1P8S	1P9S			
Capacity (Ah, @0.33C)	50	50			
Nominal Voltage (V, @0.33C)	25.60	28.80			
Maximum continuous charge current (A)	50	50			
Maximum continuous discharge current (A)	50	50			
Energy (Wh, @0.33C, 25°C)	1280	1280			
Weight (Wh/kg)	11.0	11.7			
Energy density (Wh/kg)	116.3	123.0			
Dimensions (mm, L*W*H)	356.0*152.0*108.0 (VDA standard)	401.6*153.0*112.0 (Non-standard)			
General specification_					
Charging temperature	-20°C ~ 55°C				
Discharging temperature	-30°C ~ 55°C				
storage temperature	- 30°C ~ 55°C				
Dielectric strength	2700V DC				
Insulation resistance	≥ 500 MΩ				
Voltage difference of sets	≤ 20 mV				

Powering Up Your Mobility ← Powering Up Your Mobility