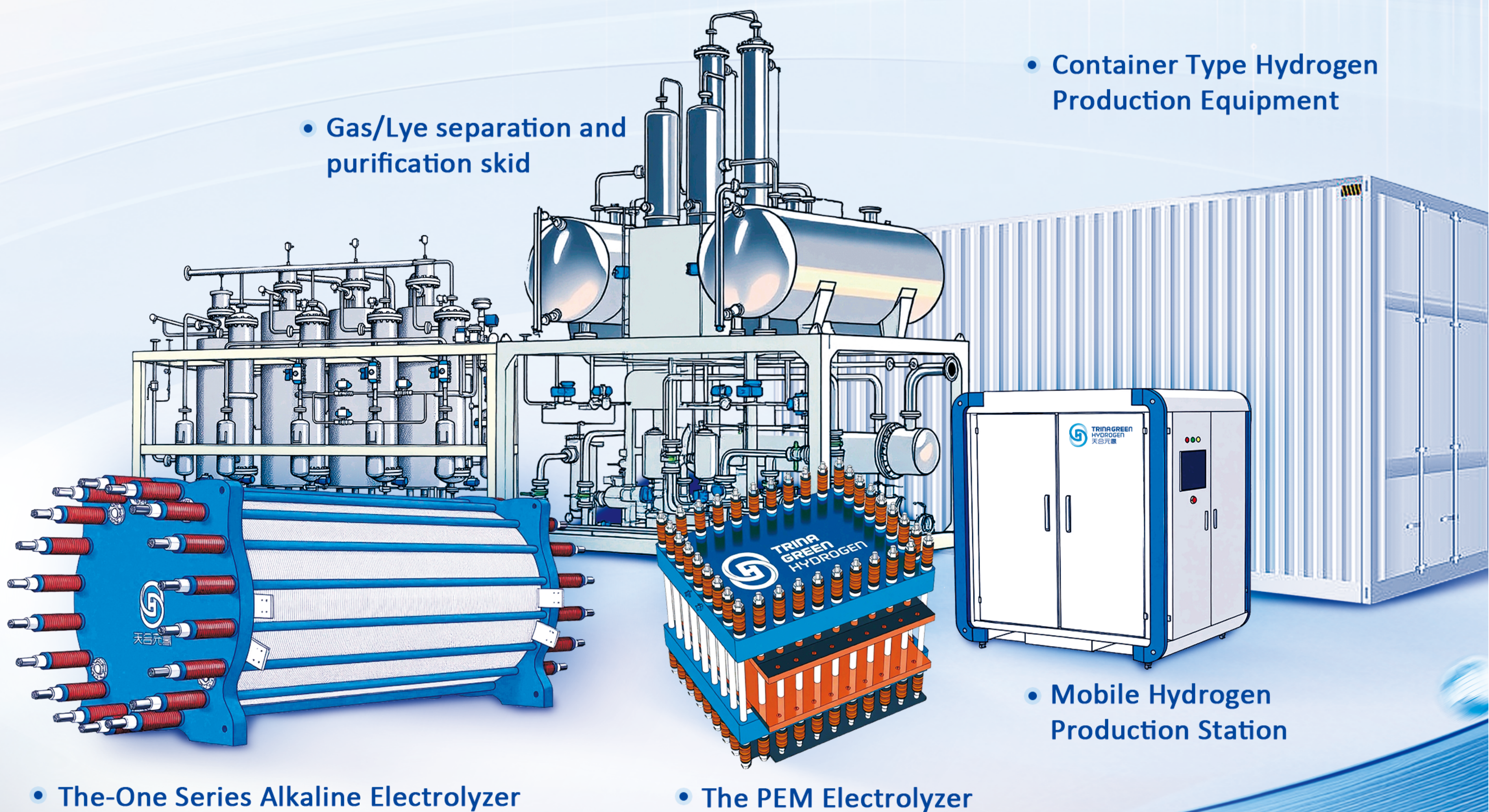


GREEN HYDROGEN CREATE ZERO CARBON EMISSIONS FUTURE

- ◎ No-ignition、no short-circuit、No-leakage
- ◎ Low energy consumption、high efficiency、long lifespan
- ◎ Safe and stable materials
- ◎ Refined design of flow field



• Gas/Lye separation and purification skid

• Container Type Hydrogen Production Equipment

• The-One Series Alkaline Electrolyzer

• The PEM Electrolyzer

• Mobile Hydrogen Production Station

GREEN HYDROGEN CREATE ZERO CARBON EMISSIONS FUTURE

• The-One Series Alkaline Electrolyzer

Specification	TQ1000	TQ2000
Hydrogen production (Nm ³ /h)	1000	1000
Oxygen production (Nm ³ /h)	500	500
Operating pressure (MPa)	1.6	
DC power consumption (kWh/Nm ³)	4.0-4.4	
Rated power (MW)	5	10
Power fluctuation range (%)	30-110	
Operating temperature (°C)	90±2	
Electrolyte	30% KOH	

• The PEM Electrolyzer

Specification	TP-50	TP-100	TP-200	TP-250	TP-300
Rated hydrogen production (Nm ³ /h)	50	100	200	250	300
Rated oxygen production (Nm ³ /h)	25	50	100	120	150
Rated electrical density (A/cm ²)	3				
Hydrogen pressure (mpa)	1.5~3.0				
Oxygen pressure (mpa)	0~0.5				
Operation temperature (°C)	60±5				
Ambient temperature (°C)	5~40				
Rated power (MW)	0.25	0.5	1	1.25	1.5
Rated power consumption (kWh/Nm ³)	≤4.3				
Range (%)	10~120				
Plant Life (h)	80000				
Water quality requirements (μS/cm)	≤0.1				

• Mobile Hydrogen Production Station

Specification	Mobile hydrogen production station2	Mobile hydrogen production station5	Mobile hydrogen production station10
hydrogen production (Nm ³ /h)	2	5	10
oxygen production (Nm ³ /h)	1	2.5	5
Operating pressure (MPa)	0.5-1		
DC power consumption (kWh/Nm ³)	4.0-4.4		
Load range (%)	30-110%		
Operating temperature (°C)	90±2		
Electrolyte (KOH溶液)	30%		

• Container Type Hydrogen Production Equipment

Specification	TJ 50	TJ-100	TJ-200	TJ-500
standard container (set)	40HQ+20HQ	2*40HQ	2*40HQ+20HQ	5*40HQ
Oxygen production (Nm ³ /h)	50	100	200	500
Operating pressure (MPa)	1.6			
DC power consumption (kWh/Nm ³)	4.0-4.4			
Rated power (MW)	0.25	0.5	1	2.5
Power fluctuation range (%)	30-110			
Operating temperature (°C)	90±2			
Electrolyte (KOH solution)	30% KOH			

• Gas/Lye Separation And Purification Skid

Specification	Purification drying system
Hydrogen treatment capacity (Nm ³ /h)	1000-12000
Hydrogen dew point (°C)	-70
Operating pressure (Mpa)	1.6
Hydrogen purity (%)	99.999
control mode	PLC/DCS

Specification	Gas liquid separation 1000	Gas liquid separation 2000	Gas liquid separation 4000
Hydrogen treatment capacity (Nm ³ /h)	1000	2000	4000
Oxygen treatment capacity (Nm ³ /h)	500	1000	2000
Operating pressure (Mpa)	1.6		
control mode	PLC/DCS		