

DATASHEET SUNGREENH2 20kW AEM ELECTROLYZER CUBE



Hydrogen Purity (Without Purifier) Hydrogen Purity (With Purifier) Output Pressure Efficiency (HHV) Stack Energy Consumption (per kg H2) System Energy Consumption (per kg H2) Fower Supply Minimum water input quality Water Consumption V5 L/hr Water Input Pressure Ambient Operating Temperature Stack Operating Temperature Cold Start Time* 99.0% 99.99% V9.999% V9.09 AND. System Energy Consumption (per kg H2) V5 kWh/kg Power Myh/kg ASTM D1193-06 Type III, Recommended Type I Value Consumption V5 L/hr Value Input Pressure Ambient Operating Temperature Fo-45 °C Stack Operating Temperature Instant	D 1 (1 D)	4.0711140/1. (401(1)
Hydrogen Purity (With Purifier) Output Pressure Efficiency (HHV) Stack Energy Consumption (per kg H2) System Energy Consumption (per kg H2) Power Supply Minimum water input quality Water Consumption Value Input Pressure Ambient Operating Temperature Stack Operating Temperature Cold Start Time* 99.999% 410 Bar 87.5% StWh/kg 50 kWh/kg ASTM D1193-06 Type III, Recommended Type III	Production Rate	4.67NM3/hr (10kg /day)
Output Pressure Efficiency (HHV) 87.5% Stack Energy Consumption (per kg H2) System Energy Consumption (per kg H2) Power Supply ASTM D1193-06 Type III, Recommended Type I Water Consumption <5 L/hr Water Input Pressure Ambient Operating Temperature Stack Operating Temperature Cold Start Time* <10 Bar A7.5% A5.5% 45 kWh/kg A5 kWh/kg ASTM D1193-06 Type III, Recommended Type I VASTM D1193-06 Type III, Recommended Type I Cold Start Time* Instant	Hydrogen Purity (Without Purifier)	99.0%
Efficiency (HHV) Stack Energy Consumption (per kg H2) System Energy Consumption (per kg H2) Power Supply Minimum water input quality Water Consumption Water Input Pressure Ambient Operating Temperature Stack Operating Temperature Cold Start Time* 87.5% 87.5% 45 kWh/kg 50 kWh/kg ASTM D1193-06 Type III, Recommended Type III, Recommended Type I V5 L/hr 5-45 °C 60-70 °C 10ft ISO Container Instant	Hydrogen Purity (With Purifier)	99.999%
Stack Energy Consumption (per kg H2) System Energy Consumption (per kg H2) Power Supply 3 Phase 400 VAC 50/60 Hz Minimum water input quality ASTM D1193-06 Type III, Recommended Type I Water Consumption <5 L/hr Water Input Pressure Ambient Operating Temperature 5-45 °C Stack Operating Temperature 60-70 °C Dimensions 10ft ISO Container Cold Start Time*	Output Pressure	<10 Bar
System Energy Consumption (per kg H2) 50 kWh/kg Power Supply 3 Phase 400 VAC 50/60 Hz Minimum water input quality ASTM D1193-06 Type III, Recommended Type I Water Consumption <5 L/hr Water Input Pressure 1-4 barg Ambient Operating Temperature 5-45 °C Stack Operating Temperature 60-70 °C Dimensions 10ft ISO Container Cold Start Time*	Efficiency (HHV)	87.5%
Power Supply 3 Phase 400 VAC 50/60 Hz Minimum water input quality ASTM D1193-06 Type III, Recommended Type I Water Consumption <5 L/hr Water Input Pressure Ambient Operating Temperature 5-45 °C Stack Operating Temperature 60-70 °C Dimensions 10ft ISO Container Cold Start Time*	Stack Energy Consumption (per kg H2)	45 kWh/kg
Minimum water input quality ASTM D1193-06 Type III, Recommended Type I Water Consumption <5 L/hr Water Input Pressure Ambient Operating Temperature 5-45 °C Stack Operating Temperature 60-70 °C Dimensions 10ft ISO Container Cold Start Time*	System Energy Consumption (per kg H2)	50 kWh/kg
Water Consumption <5 L/hr Water Input Pressure 1-4 barg Ambient Operating Temperature 5-45 °C Stack Operating Temperature 60-70 °C Dimensions 10ft ISO Container Cold Start Time*	Power Supply	3 Phase 400 VAC 50/60 Hz
Water Input Pressure Ambient Operating Temperature Stack Operating Temperature Dimensions 1-4 barg 5-45 °C 60-70 °C Dimensions 10ft ISO Container Instant	Minimum water input quality	•
Ambient Operating Temperature5-45 °CStack Operating Temperature60-70 °CDimensions10ft ISO ContainerCold Start Time*Instant	Water Consumption	<5 L/hr
Stack Operating Temperature 60-70 °C Dimensions 10ft ISO Container Cold Start Time* Instant	Water Input Pressure	1-4 barg
Dimensions 10ft ISO Container Cold Start Time* Instant	Ambient Operating Temperature	5-45 °C
Cold Start Time* Instant	Stack Operating Temperature	60-70 °C
	Dimensions	10ft ISO Container
Hot Start Time	Cold Start Time*	Instant
Hot Start Time	Hot Start Time	Instant
Turn Down Ratio 10%	Turn Down Ratio	10%
Turn Up Ratio [^] 200%	Turn Up Ratio^	200%
Electrolyte 1M KOH (5.34wt%)	Electrolyte	1M KOH (5.34wt%)
Catalyst PGM-Free Material	Catalyst	PGM-Free Material

^{*}Max performance achieved at 70°C

[^] Efficiency will reduce at 200% turn up ratio