



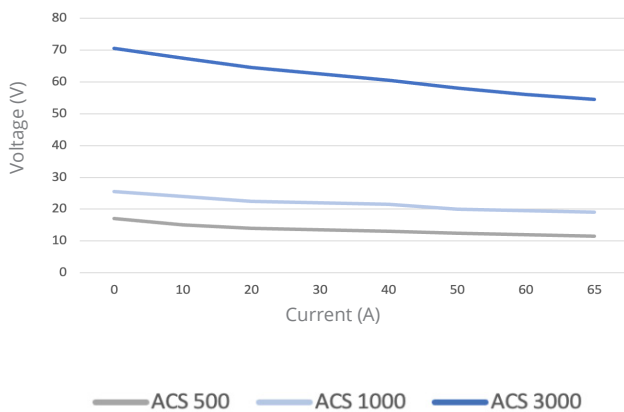
General

H2SYS manufactures hydrogen fuel cell systems adapted to industrial and system integrators. The Balance of Plant has been fully designed to offer a «plug and play» system : no need of specific pressure reducer or control board for cooling and humidification. User only controls the power of the fuel cell system by the load in output. AIRCELL® product range has been designed for reliability and optimum electric efficiency. AIRCELL® range is composed of 3 products covering powers from 500W to 3000W. Several options are available for customization and for matching specificities of the targeted application.

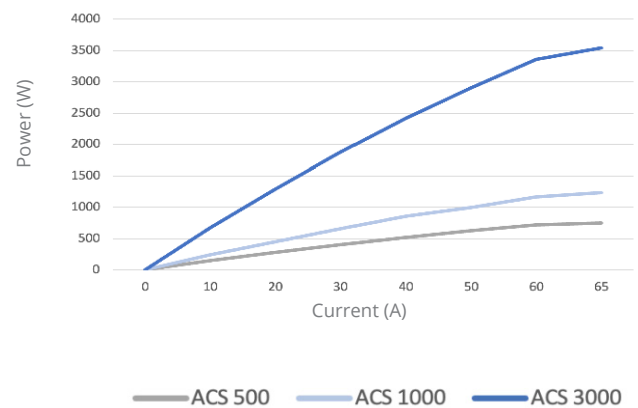
Features

- Ready-to-use
- Self-powered
- Communication (CanBus)
- Modular (up to 5 systems in parallel)
- H2 and electric safety
- High efficiency (up to 67%)

Polarization curves



Aircell polarization curves



Aircell power curves

Optionals features



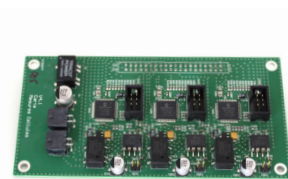
24/48V DC converter



Computer software



Modbus communication



CVM board

Technicals datas

PERFORMANCES			
AIRCELL	500 ACS	1000 ACS	3000 ACS
Nominal power (W)	500	1000	3000
Maximal power (W)	680	1250	3600
Output voltage (V)	12 - 18	18 - 28	52 - 80
Min / Max current (A)	5 - 50 / max 65 A dur. 30s		
Sizes (mm): L x l x h	212 x 423 x 347	212 x 423 x 402	212 x 423 x 686
Mass (kg)	10	13	24
Number of cells	18	28	80
HYDROGEN			
Hydrogen specification	Minimum quality grade 3,5 (99,95%)		
Hydrogen inlet pressure	5 - 9 bar		
Fuel consumption	65 g/kWh		
Nominal fuel consumption	6 NI/min	10 NI/min	30 NI/min
OPERATION			
System power supply	24 Vdc (@start-up 200W)		
Starting procedure	Start and stop button CANbus message (optional : user interface or Modbus message)		
Start	Less than 5 s		
Communication protocol	CANbus 2.0 A		
Operating ambient temperature	+ 5°C to + 45°C		
Collectable datas	Voltage Current Temperature System Status Error reports		
Optional features	ModBus communication (TCP/IP) Computer software Cells voltage monitoring (CVM board) DC/DC converter Operation from -5°C to +5°C		
CERTIFICATION			
Designed under CE directives	Stack : IEC 62282-2:2012 Law voltage - 2014/35/UE CEM - 2014/30/UE		

INFORMATIONS
AND
REQUEST FOR QUOTATION



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