

SuShui Direct Methanol Fuel Cell Generators

Independent Power Solutions for IoT and Mission Critical Installations. Maintaining battery charge when solar fails.

- 50w, 85w, 130w and 200w Models
- Methanol Agnostic - 99.85% IMPCA
- RS-485 Data Interface
- UK Service Centre
- 6000 Hour Warranty

Direct methanol fuel cells are electrochemical power generators that use methanol. They emit only water vapour and small amount of carbon dioxide and no hazardous gases. They quietly generate pure direct current without EMI or mechanical wear unlike internal combustion generators. They are efficient and inexpensive to run and able to operate under harsh conditions - methanol only freezes below -97.8°



Sushui DFMCS are sold and supported in the UK by Device Smart Ltd

BACK-UP YOUR SOLAR POWER



Performance Data	DMFC-KH-50R	DMFC-KH-85R	DMFC-KH-130R	DMFC-KH-200R
Max. output power	50W	85W	130W	200W
Output Power at 6000th hour	35W	60W	91W	140W
	Degradation speed may vary depending on actual environmental conditions			
Max. charging current @10.5V(12V battery pack)/21.0V(24V battery pack)	3.3A/1.7A	8.1A/4A	12.4A/6.2A	N.A./9.5A
Adjustable on/off voltage range for lead acid batteries 12/24V	[10.5, 14.4V]/[21, 28.8V]	[10.5, 14.4V]/[21, 28.8V]	[10.5, 14.4V]/[21, 28.8V]	N.A./[21, 28.8V]
Ajustable on/off voltage range for LiFePO4 batteries 12/24V	[9, 16.8V]/[18, 30V]	[9, 16.8V]/[18, 30V]	[9, 16.8V]/[18, 30V]	N.A./[18, 30V]
Fuel consumption	0.8~1.1L/kWh (depending actual running environmental conditions)			
Fuel type	99.85% IMPCA standard methanol or DI water/methanol mixture approved by Sushui Tech for special applications.			
Fuel tank	Customizable per voyage requirement. Stacking possible with interconnecting pipes.			
INSTALLATION DATA				
Weight	7.1kg	7.5kg	13kg	14.5kg
Size(LWH)	340 x 155 x 265mm	340 x 155 x 265mm	340 x 245 x 311mm	340 x 245 x 311mm
Operating temperature	-20°~+50°/-4°~+122°			
Start-up temperature	+3°~+50°/+34°~+122°			
IP-Class	IP42			
Recommended altitude	≤3000m ABS			
Inclination Along Roll Axis	Permanent: 30°; Temperary (<10min.): <45°			
Inclination Along Lateral Axis	Permanent: 30°; Temperary (<10min.): <45°			
Feed-in pipe length	1m/39.37inch			
INTERFACE				
User Interface	Membrane Kaypad/Mechanical Button			
Data Interface	RS485 ModBus Slave Communication Protocol, 5-pin M12 aviation connector			
Electric Interface	2-pin M12 aviation connector			
COMPATIBLE BATTERIES				
Recommended minimal battery capacity lead batteries 12/24V	40Ah/20Ah	60Ah/30Ah	80Ah/40Ah	N.A./50Ah
Maximum adjustable battery capacity lead batteries 12/24V	800Ah/400Ah			N.A./400Ah
Recommended minimal battery capacity LiFePO4 batteries	20Ah/10Ah	30Ah/15Ah	40Ah/20Ah	N.A./25Ah
Maximum adjustable battery capacity LiFePO4 batteries	600Ah/300Ah			N.A./300Ah

Warranty: 24 months within 6000 hours

Certificates: CE, FCC, CNAS, UKCA (in two months)