

# PEFC Fuel Cell Stacks – EOS Series

The **EOS** series is a system that uses an electric fan to introduce atmospheric air directly into the cathode electrode to simultaneously supply oxygen as an oxidant and control the stack temperature. Oxygen supply and cooling are controlled by the same fan, allowing power generation without humidification. Compared to water-cooled fuel cells, this system is very simple and can be used for both stationary and mobile applications at low cost. There are nine output types ranging from 30W to 5kW, and multiple EOS units can be connected in parallel or in series to meet the need for higher output.

**[Applications]** Small mobile vehicles (welfare vehicles, electric carts, etc.), backup power source, charger for cell phones, PCs, etc.



▲ Electric carts



▲ Pavilion car



▲ Motorcycle

## [Basic Specification]

Item No.	EOS 30	EOS 50	EOS 100	EOS 220	EOS 300	EOS 500	EOS 1000	EOS 3000	EOS 4000	EOS 5000
CELL pcs	22	32	22	40	42	40	60	70	100	120
RATED OUTPUT W	30	50	100	220	300	500	1000	3000	4000	5000
RATED VOLTAGE V	13.2	19.2	13.2	24	25.2	24	36	54	60	72
RATED CURRENT A	2.3	2.6	7.6	9.2	11.9	20.9	27.8	56	66.7	69.5
VOLTAGE RANGE V	11~22	16~32	11~22	20~40	22~42	20~40	30~60	45~90	50~100	60~120
SUPPLY PRESSURE kPa.G	40~50			50~60			60~70			
WEIGHT Kg Stack+Fan+Purge valve	0.60	0.75	1.10	1.75	2.40	3.32	6.00	14.30	-	21.50
W*D*H mm Stack+Fan	110*70*67	139*70*67	125*126*98	208*126*98	242*140*84	232*138*132	331*155*176	390*251*266	595*283*282	637*251*266



Please note that the technical specifications for this device, as provided by the manufacturer in Japan, may differ depending on the country in which you plan to use the device. Please consult the relevant documentation or seek expert advice if you have any concerns or questions about using this device in a particular location.