



**SUD CONCEPT**  
Accélérateur d'innovation

**Technical Specification for Senergy solar DC air conditioner, 9K and 18K BTU**

<b>ITEM NO. Model #</b>	<b>FTKD25DVMA –(9K-BTU) SMSP-9K-DC</b>	<b>FTKD50FVM-(18K-BTU) SMSP-18K-DC</b>
Electric shock protecting	1 category	1 category
Waterproof Class	IPX4	IPX4
Power supply	24/48 VDC	24/48 VDC
Cooling Capacity(W) (min-max)	2,500(1,310-3,000)	5,200(1,500-5,900)
Cooling Capacity (BTU)	8,500(4,400-10,200)	18,000(5,100-20,100)
Controller power (MAX)	230/400w	230/400w
<b>Input power(W) Average</b>	300	600
Heating Capacity(W)	500(130-1200)	6,500(1,500-8,000)
Heating capacity (BTU)	11,600(4,400-13,650)	22,000(5,100-27,300)
Front panel color	Whit	whit
Charge Controller	12/24- 20/40 amp	12/24- 20/40 amp
Charger watt capacity	750/1500	1500w
Charger	100-230AC Input 24/48DC Out put	100-230AC Input 24/48DC Out put
Inverter/Adapter Out put	300VDC-3000Watt & 220VAC-500W-50Hz	300VDC-3000Watt & 220VAC-500W-50Hz
<b>DC Amp average (24Vdc) (1/2 of on 48)</b>	20	40
DC amp (Min – Max)	10-30	25-80
cycle air capacity(cooling/heating)(CFM)	332	610
Liquid charge (Refrigerant) – 410a (g)	900 (0.9Kg)	1,300 (1.3Kg)
Design Pressure (High)		4.17MPa
Design Pressure (Low)		2.21MPa
indoor Noise(cooling/heating)(db(A))	37/25	43/32
Outdoor Noise(cooling/heating)(db-A)	47/43	47/43
Maximum pipe length m	20	30
Maximum height difference m	15	20
Indoor unit N.G(kg)	10	10
Outdoor unit N.G(kg)	110	110
Indoor unit Dimensions(mm) W/H/D	1100 X 290 X 220	1100 X 290 X 220
Outdoor unit Dimensions(mm)	820 X 1080 X 360	820 X 1080 X 360
Indoor unit Package Dimensions(mm)	1,315 X 344 X 260	1,315 X 344 X 260
Outdoor unit Package Dimensions(mm)	996 X 1119 X 473	996 X 1119 X 473
Solar Panels Watt Min (Optimum-Max)	400 (500-650)	800 (1000-1200)
Batteries 100Ah 12V Min (Average-Max)	2(4-6)	4(6-8)
COP Average	Up to 5.5	Up to 5.5