

**ECO DC Inverter  
SORA PLUS**



85T

<b>SORA+</b>		Unit	<b>TSN/TSG-09R32</b>	<b>TSN/TSG-12R32 PLUS</b>	<b>TSN/TSG-18R32 PLUS</b>	<b>TSN/TSG-24R32 PLUS</b>	
Reference indoor unit			TSN-09R32	TSN-12R32 PLUS	TSN-18R32 PLUS	TSN-24R32 PLUS	
Reference outdoor unit			TSG-09R32	TSG-12R32 PLUS	TSG-18R32 PLUS	TSG-24R32 PLUS	
EAN code indoor unit			4963505830786	4963505900045	4963505900069	4963505831011	
EAN code outdoor unit			4963505078010	4963505900052	4963505900076	4963505101015	
Voltage range		V	165-265	165-265	165-265	165-265	
Cooling	Cooling capacity	W	2600 (940-3300)	3520 (600-3750)	5200 (1250-6000)	7020 (1830-8000)	
	Power consumption	W	802 (240-1380)	1036 (160-1600)	1597 (330-2350)	2100 (390-2900)	
	Operating current	A	4,7 (1,2-8,0)	5,0 (1,3-9,0)	7,0 (1,5-12,0)	9,2 (1,7-15,5)	
	EER	W/W	3,24	3,39	3,25	3,34	
Seasonal Cooling	Pdesignc	W	2600	3500	5200	7000	
	SEER	W/W	6,3	6,7	6,5	6,5	
	Energy class		A++	A++	A++	A++	
	Annual energy consumption	kWh/a	144	183	280	377	
Heating	Heating capacity	W	2630 (940-3360)	3600 (600-3900)	5300 (1250-6200)	7100 (1850-8000)	
	Power consumption	W	706 (240-1550)	927 (160-1600)	1403 (340-2550)	1870 (390-3200)	
	Operating current	A	4,2 (1,2-9,0)	4,6 (1,3-9,0)	6,3 (1,6-13,0)	8,2 (1,7-17,0)	
	COP	W/W	3,73	3,88	3,77	3,79	
Seasonal Heating (Average)	PdesignH	W	2100	2400	3900	5800	
	SCOP	W/W	4,0	4,0	4,0	4,1	
	Energy class		A+	A+	A+	A+	
	Annual energy consumption	kWh/a	735	840	1365	1981	
Seasonal Heating (Warmer)	Declared capacity (-10°C)	W	2000	2200	3600	5500	
	Back-up heating capacity (-10°C)	W	100	200	300	300	
	PdesignH	W	2300	3100	5200	7200	
	SCOP	W/W	5,1	5,1	5,1	5,1	
Seasonal Heating (Colder)	Energy class		A+++	A+++	A+++	A+++	
	Annual energy consumption	kWh/a	631	851	1428	1977	
	Declared capacity (2°C)	W	2300	3100	5200	7200	
	Back-up heating capacity (2°C)	W	0	0	0	0	
Indoor Unit	PdesignH	W	1900	3000	4700	6500	
	SCOP	W/W	3,6	3,4	3,4	3,4	
	Energy class		A	A	A	A	
	Annual energy consumption	kWh/a	1108	1853	2903	4015	
Outdoor Unit	Declared capacity (-22°C)	W	1800	2000	3800	4800	
	Back-up heating capacity (-22°C)	W	100	1000	900	1700	
	Moisture removal	Litri/h	1	1,2	1,8	2,5	
	Sound power (S/H/H-M/M/M-L/L/L/Mute)	dB(A)	51/47/45/43/39/35/32	52/49/44/42/39/36/32	56/53/49/46/42/39/37	58/52/50/48/46/44/41	
	Sound pressure (S/H/H-M/M/M-L/L/L/Mute)	dB(A)	41/37/35/33/29/25/22	42/37/35/34/32/30/29	47/43/39/36/33/30/27	47/42/40/38/36/34/31	
	Air circulation (S/H/H-M/M/M-L/L/L/Mute)	Cooling m³/h	560/530/480/450/420/390/340	560/530/480/450/420/390/340	820/742/675/621/573/525/482	1100/1020/960/890/830/770/680	
		Heating m³/h	560/490/470/450/430/400/380	570/500/480/460/430/410/390	820/742/675/621/573/525/482	1100/1020/960/900/850/790/720	
		Cooling rpm	1150/1080/980/920/860/800/700	1150/1080/980/920/860/800/700	1360/1230/1120/1030/950/870/800	1220/1130/1060/990/920/850/750	
		Heating rpm	1250/1100/1050/1000/950/900/850	1250/1100/1050/1000/950/900/850	1360/1230/1120/1030/950/870/800	1220/1130/1070/1000/940/880/800	
		Fan speed (S/H/H-M/M/M-L/L/L/Mute)					
Connections	Indoor fan motor type		AC	DC	DC	DC	
	Net weight	kg	8,5	8,5	10	14	
	Gross weight	kg	10,5	10,5	12	17	
	Net dimensions (W x H x D)	mm	790x275x192	790x275x192	920x306x195	1100x333x222	
	Packing dimensions (W x H x D)	mm	860x345x265	860x345x265	990x380x265	1165x405x295	
	Compressor	Type		Rotary	Rotary	Rotary	
	Refrigerant	Type		R32	R32	R32	
		Charge	kg	0,57	0,53	0,96	1,07
		GWP		675	675	675	675
	Others	CO2 equivalent		0,385	0,358	0,648	0,723
Outdoor air circulation		m³/h	1900	1900	2600	3000	
Outdoor fan speed (S/H/M/L/Silent)		Cooling rpm	900/820/710/610/510	920/920/810/730/610	930/930/830/630/550	880/850/810/710/530	
		Heating rpm	910/850/710/610/510	850/850/810/750/650	910/910/830/630/450	880/850/810/710/530	
Outdoor fan motor type			DC	DC	DC	DC	
Sound power level		dB(A)	60	62	65	69	
Sound pressure level		dB(A)	50	52	55	59	
Expansion device					Capillary		
Net weight		kg	24	22,5	30	39	
Gross weight (without piping)		kg	26	24	32,5	42,5	
Gross weight (with piping)	kg	27	25	34	44		
Net dimensions (W x H x D)	mm	777x498x290	777x498x290	853x602x349	920x699x380		
Packing dimensions (W x H x D) - without piping	mm	818x515x325	818x515x325	890x628x385	960x732x430		
Connecting wiring (Number of cores x Section)	mm²	4x0,75mm²	4x0,75mm²	4x0,75	4x0,75mm²		
Power supply cable (Number of cores x Section)	mm²	3x1,5	3x1,5mm²	3x1,5	3x2,5		
Drain pipe diameter	mm	16	16	16	16		
Connecting pipe	Gas	Inches	3/8"	3/8"	3/8"	1/2"	
	Liquid	Inches	1/4"	1/4"	1/4"	1/4"	
Others	Application area	m²	9-16	14-22	20-35	27-45	
	Max. refrigerant pipe length	m	25	25	25	25	
	Max. height difference	m	10	10	10	10	
	Total pipe length (standard charge)	m	5	5	5	5	
	Additional refrigerant charge	g/m	15	15	25	25	
	Operating temperature range	m	16-31	16-31	16-31	16-31	
Ambient temperature range	Outdoor	°C		Cooling: -15-53 / Heating: -20-30			
	Indoor	°C		Cooling: 17-32 / Heating: 0-30			
Loading capacity			20/CP/40/CP/40/HQ	312	312	213	
						151	

Harmonised standard: EN 14511 : 2007. EN 12102 - Global Warming Potential (GWP)

Note: \*The power supply is on the outdoor unit \*\* The technical data comply with the UNI EN 14511/2004 standard \*\*\* Measured in free field

# ECO DC Inverter SORA PLUS



## SORA+

### SORA PLUS, where affordability meets high performance

With top-notch technology, versatile operation, and a sleek design, Sora is the perfect air conditioner for your home.

#### HIGH PERFORMANCE

- Exceptional performance across a wide range of operating temperatures for the air conditioner.
- Turbo Cooling:
  - Super high-frequency start-up for rapid cooling in under 30 seconds.
  - Increased air volume by 20%.
  - Noise reduction by 1-2 dB(A).
- WiFi-ready for effortless installation via USB stick.

#### MODERN INDOOR UNIT DESIGN

- Sleek indoor unit design featuring a matte finish for an appealing aesthetic.
- Top filter seamlessly integrated into the inlet grill for effortless cleaning.
- Specially designed wind blades ensure gentle, comfortable airflow.
- Smart airflow design utilizes larger louvers for extended and wider air distribution.
- Simplified installation and maintenance facilitated by an optimized installation plate, enhancing ease of assembly.
- Equipped with self-cleaning and sterilization functions for enhanced hygiene and convenience.

#### ACCESSORIES

- WiFi module (USB stick) - EAN code 4963505049843



Ecological, non-toxic and safe ozone-free R32 refrigerant



ECO mode



Heating mode at 8°C



Save energy 'operating mode'



Dehumidification function



Smart Air Flow



GEN mode



Self-diagnosis system



Gentle air flow



Sleep mode



Memory position air louver



Self Clean



Refrigerant leakage detection