

Nocart Solar Container

Mini-PMU	Value	Notes
Nominal output power kVA, 25 C	45 kVA	-
Nominal output power kW, 25 C	36 kW	-
Nominal output voltage	400 V _{ac} +/- 2 %	-
Nominal output frequency	50 Hz +/- 0.1%	-
Max. efficiency	96 %	-
AC Generator input max. power	22 kVA	-
AC Grid input max. power	45 kVA	-
Solar array	Value	Notes
Solar peak power	11.13 kWp	-
Solar panel surface area	67.2 m ²	-
Solar module efficiency	16,30 %	-
Modules assembled in	EU	-
Energy storage	Value	Notes
Battery type	LiFePO ₄	-
Capacity, standard energy storage	12,5 kWh	Standard Energy storage
Capacity, high-capacity option	37,5 kWh	High-capacity option
Nominal Voltage	48 V	-
C-rate	2,5	-
Max. charge and discharge power	25 kW @ 1 min	-
Design Life	10+ years	-
Charge cycle life	> 6 000 (25 C)	-
Functionalities	Temperature sensor	-
Physical specifications	Value	Notes
Dimensions NEA40 (W x H x L)	2.5 m x 2.9 m x 12.2 m	-
Dimensions NEA20 (W x H x L)	2.5 m x 2.6 m x 6.1 m	-
Area required NEA40 (W x L)	18 m x 20 m	-
Area required NEA20 (W x L)	18 m x 14 m	-
Weight NEA20	9 200 kg	Weight depends on the Energy Application and secondary options
Weight NEA40	10 500 kg	-
Dimensions when deployed NEA40	17.5 m x 14.5 m x 2.9 m	-
Dimensions when deployed NEA20	11.4 m x 14.5 m x 2.6 m	-
Installation and operation	Value	Notes
Deployment time (2 people)	under 15 min	-
Retraction time (2 people)	under 30 min	-
Storage temperature	-20 ... +60 C	-
Operating temperature	0 ... +50 C	derating applies on higher temperatures and altitudes
Humidity (non condensing)	Max 95 %	-
Installation requirements	Level, solid and dry ground Wind speed max. 22 m/s	-
Connection interfaces	Value	Notes
Diesel generator input socket	1x CEE 3P+N+PE 400V / 32A	-
Mains AC input connection	3P + N + E Bolts M6	-
3-phase load socket	1x CEE 3P+N+E 400V / 16A	-
1-phase load socket	1x CEE 7/3 Schuko 230V / 16 A	-
Island grid output connection	3P+N+E Bolts M6	-

Nocart Solar Container comply with following standards:

Safety standards	EN-IEC 60335-1, EN-IEC 60335-2-29, EN-IEC 62109-1
Island grid output emissions standards	EN 55014-1, EN 55014-2, EN-IEC 61000-3-2, EN-IEC 61000-3-3, IEC 61000-6-1, IEC 61000-6-2, IEC 61000-6-3
Certificates	TÜV / CE / UN38.3 / TLC

OPTION: Water pumping system	Value	Notes
Power consumption	1.5 kW	-
P050 capacity	max 50m head, 2700 ltr/h	-
P100 capacity	max 100m head, 2410 ltr/h	-
P150 capacity	max 150m head, 1500 ltr/h	-
OPTION: Cold storage	Value	Notes
Floor surface NEA20F	12.1 m ²	-
Floor surface NEA40F	7.8 m ²	-
Capacity NEA20F	28.3 m ³	-
Capacity NEA40F	19.6 m ³	-
Ambient temperature range	-35...+50 C (derating applies)	-
Box temperature range	-36...+36 C	-
Peak electricity consumption	up to 11 kW	-
Average electricity consumption	3.6 - 4 kW	-
Functionalities	Data recorder, multiple testing functionalities, defrost cycle control, current monitoring & protection, power consumption control, adjustable fresh air exchange	-
OPTION: Water purification system	Value	Notes
Operating principle	Reverse Osmosis /RO)	-
Avg. Permeate flow, Brackish water	1000 ltr/h	TDS mg/ltr <10 0000TDS
Avg. Permeate flow, Pacific ocean	750 ltr/h	TDS mg/ltr <33 0000TDS
Avg. Permeate flow, Atlantic ocean	700 ltr/h	TDS mg/ltr <36 0000TDS
Avg. Permeate flow, Mediterranean sea	650 ltr/h	TDS mg/ltr <39 0000TDS
Avg. Permeate flow, Arabian gulf	560 ltr/h	TDS mg/ltr <45 0000TDS
Salt rejection	99,40 %	-
Motor nominal electrical values	3 kW, 400 V _{AC} , 50 Hz	-
Pump	RO hi-pressure pump feed max. 30 LPM	-
Permeate post treatment		-
Ultraviolet lamp intensity	400 J/m ²	-
Product water quality		-
pH	6.5...8.5	-
TDS	< 270 mg/ltr	-
Other	UV-disinfected	-
RO Unit Warranty	2 years, excluding wearing components	-
Unit manufactured in	EU	-
OPTION: Generator set	Value	Notes
Fuel type	Diesel	-
Power kVA	13,2 prp, 14,3 standby	-
Power kW	10,6 prp, 11,4 standby	-
Nominal speed	1500 rpm	-
Nominal voltage	400 / 230V	-
Power factor	Cosφ 0,8	-
Engine type	Diesel 4-stroke	-
Average fuel consumption 100 % PRP	3,2 l/h	-
Voltage regulation	AVR (electronic)	-
Fuel type	Diesel	-
Length	1475 mm	-
Height	1104 mm	-
Width	750 mm	-
Parcel size	1,22 m ³	-
Weight (with oil and coolant)	506 kg	-
Fuel tank capacity	22 L (40 / 100 L options)	-
Autonomy	9h	-
Noise	62 +/- 2,4 dBA @ 7m	-