ZSC 100-400 UL Portable Solar

Technical specifications

Image for illustration purposes only

ZSC 100-400 UL

Power: 100kWp
Voltage: 480 V
Frequency: 60HZ

General description

Solar container with power peak of 100kW. Easy and fast installation to achieve a portable zero emissions energy source, together with ESS ZenergiZe, fuel consumption and CO2 emissions could be reduced in a 100%. Daily energy generation depending on solar yield could achive average of 400kWh.

TECHNICAL INFORMATION

Solar capacity	kWp	100
Energy average generation per day	kWh/day	400
Rated output current (400V)	A	120
(Un)folding time	min	240
Voltage output AC	V	480
Frequency output	Hz	60
Orientation		Any azimuth (east to west ideally)
Module tilt angle		15º
Slope limit		no need for leveling
Operating temperature	ºC / ºF	-20 to 60 / -4 to 140
Communication interface		CAN-PMS / Modbus / RS485 / webconnect
Unfolded Dimensions (L x W x H)	m / ft	102 x 6 x 1 / 335 x 20 x 3.2
Folded Dimensions (L x W x H) ISO 20ft	m / ft	6,1 x 2,44 x 2,6 / 20 x 8 x 8,5
Area required (complete unfolded+workspace)	m2 / sqft	1199 (109m x 11m.) / 12888 (358ft x 36ft)
Area required (split unfolded+workspace)	m2 / sqft	986 (58m x 17m.) / 10640 (190ft x 56ft)
Weight	kg / Lbs	12.600 kg /27,778 Lbs

The standard reference conditions are: 25 ºC, 100 kPa and 30% relative humidity. Tested parameter related to PF=1. Any change or mistake could be reviewed from Atlas Copco without notifying it

PV inverter

There are two inverters built into the ZSC 100-400 product. Safety protections are Type II SPD on DC and AC sides

Inverter Model	50KTL3-X MV	**Nominal AC voltage（range*）**	277V/480V (425-540V)
Inverter Brand	Growatt	**Max. efficiency**	98.8%
Interver Quantity	2	**DC reverse polarity protection**	Yes
Nominal capacity (Ah) / (kWh)	160/12.3	**DC switch**	Yes
Max. input current per MPP tracker	52A/39A/39A	**Anti-islanding protection**	Yes
Rated AC Output Power (two units)	100000W	**Nighttime power consumption**	<1W

Solar Panels

SMBB technology of the solar panels bettery light trapping and current collection to improve module power out and reliability.
Hot 2.0 Technology the N-type module with Hot 2.0 technology has better reliability and lover LID/LETID.
PID Resistance excellent Anti-PID performance guarantee via optimized mass-production process and materials control.
Enhanced Mechanial Load certified to withstand: wind load 2400 pascal and snow load (5400 Pascal) .
Durability Against Extreme Environmental Conditions : High salt mist and ammonia resistance.
Front Glass 3.2mm,Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass

Model Name	Exiom ex565-585tc	**Module Efficiency (%)**	19.45%
Solar Panel Quantity	184	**Nº of cells (each panel)**	144
Peak Power (Pmax)	580	**Cells**	: N type Mono-crystalline
Maximum Power Voltage (Vmp)	42.11	**Operating Temperature (ºF)**	-40~+185
Current (Pmax)	13.9	**Weight without frame:**	62 lb

Cells temperature: 77ºF. Current-Voltage & Power Voltage Curve (575)