



solaire
A Lagnuvo Initiative

TB-HR140

49.9kW/50kW/60kW/61kW
100.1kWh~400.4kWh

Solaire Split C&I Energy Storage Solution

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TB-HR140



T-HR100.1

T-HR114.4

T-HR128.7

T-HR143.0

T-HR157.3

T-HR171.6

T-HR185.9

T-HR200.2

SYSTEM SPECIFICATION

Nominal voltage	358.4 d.c.V	409.6 d.c.V	460.8 d.c.V	512 d.c.V	563.2 d.c.V	614.4 d.c.V	665.6 d.c.V	716.8 d.c.V
Operating voltage range	292 - 409 d.c.V	333 - 468 d.c.V	375 - 526 d.c.V	416 - 584 d.c.V	458 - 643 d.c.V	500 - 701 d.c.V	541 - 760 d.c.V	583 - 818 d.c.V
Nominal energy	100.1 kWh	114.4 kWh	128.7 kWh	143.0 kWh	157.3 kWh	171.6 kWh	185.9 kWh	200.2 kWh
Usable energy(90% DOD) ^①	90.1 kWh	103.0 kWh	115.8 kWh	128.7 kWh	141.6 kWh	154.4 kWh	167.3 kWh	180.2 kWh
Rated charge/ discharge power	50.2 kW	57.4 kW	64.6 kW	71.7 kW	78.9 kW	86.1 kW	93.2 kW	100.4 kW
Recommend charge / discharge current	140 A							
Max. charge / discharge current ^②	154 A							
Cycle life (90% DOD) ^③	> 6000 Cycles							

ENVIRONMENT LIMIT

Operating temperature range	0 - 53°C (charge)	-20 - 53°C (discharge)
Cooling concept	Natural cooling	
Storage temperature	-20 - 30°C (12 months)	30 - 50°C (6 months)
Relative humidity	5 – 85% (non-condensing)	
Max. operating altitude	3000 m	
Installation type	Rack	
Ingress protection	IP20	
Environment	Indoor	

BMS

Model	TBMS-R15
Operating voltage vange	250 - 1000 d.c.V
Dimensions (WxHxD)	523 × 226 × 805 mm
Net weight	37 kg

RACK

Dimensions (WxHxD)	576 × 2287 × 823 mm
Net weight	91 kg

BATTERY MODULE

Battery model	TB-HR140							
Battery type	LFP							
Scalability	7	8	9	10	11	12	13	14
Module capacity	14.3 kWh							
Dimensions (WxHxD)	523 × 226 × 805 mm							
Net weight	115 kg							

BATTERY MODULE

Communication interfaces	CAN
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STANDARD

Safety	IEC 62619, IEC 62477, UN38.3
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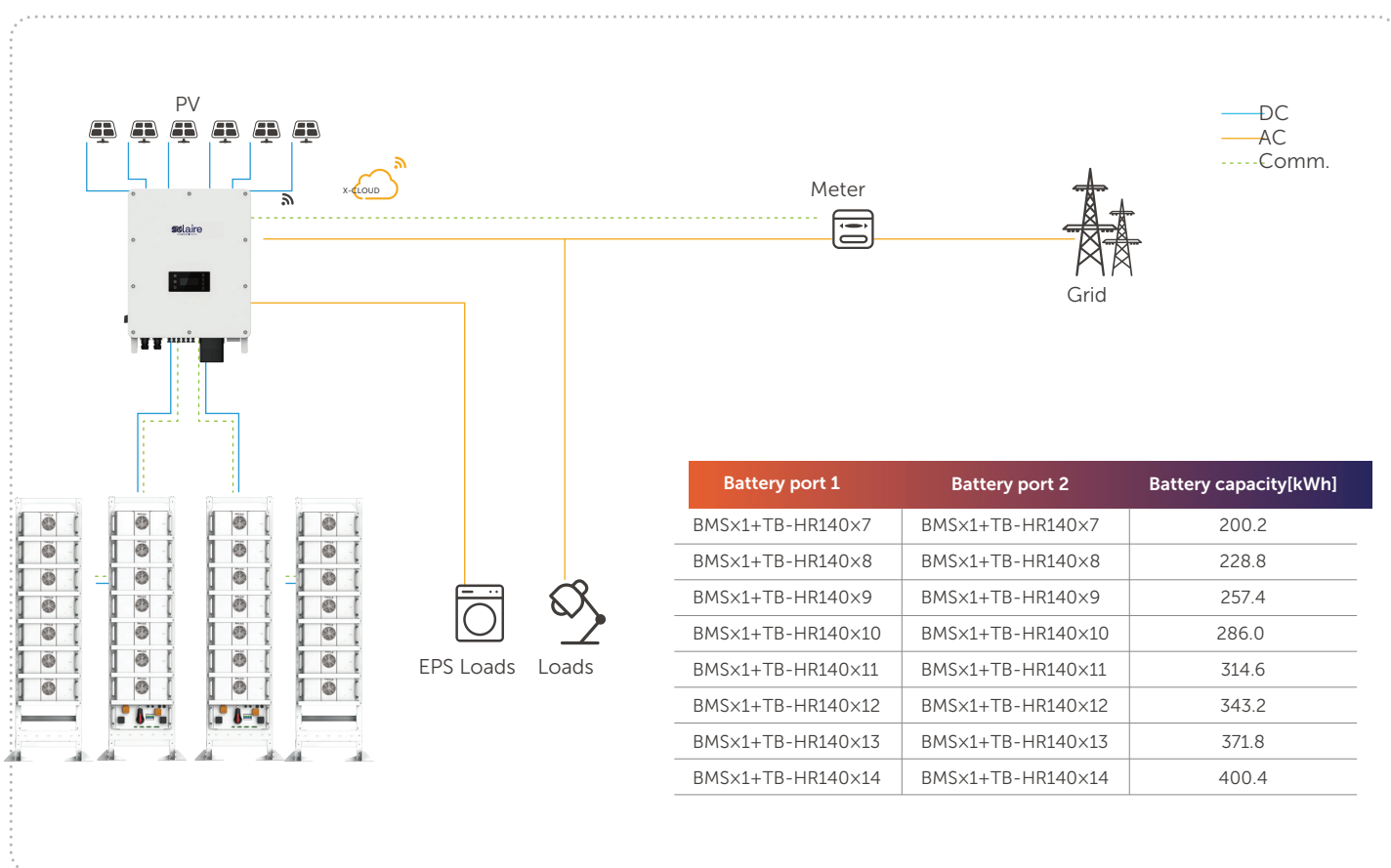
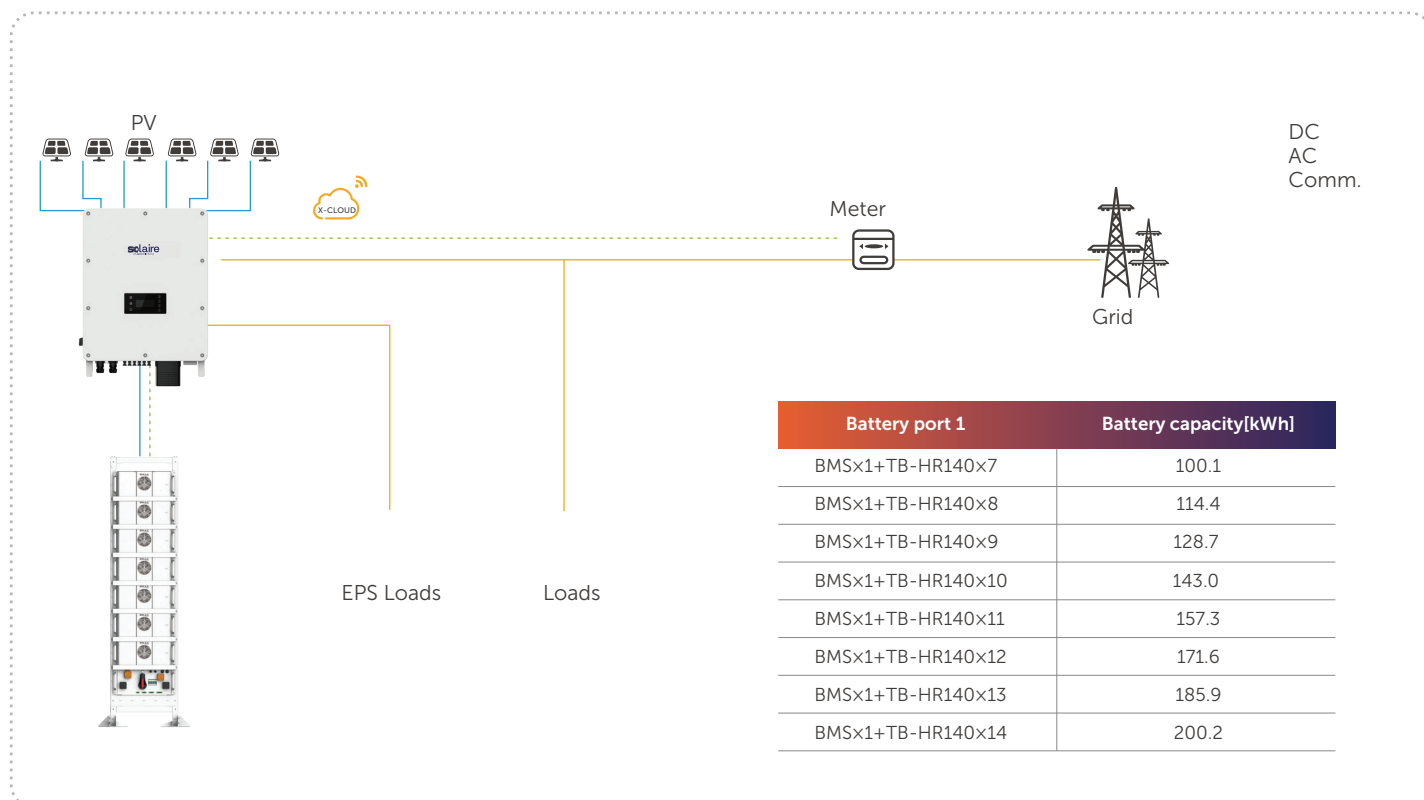
Test conditions: 90% DOD, 0.2C charge & discharge @+25°C

Current is affected by the number of batteries connected in parallel as well as temperature and SOC

Test conditions: 25±2°C, 0.5C charge & discharge, 70%EOL

Regardless of whether the internal and external fans are on or off, the typical value is the maximum value obtained from the test results.

BATTERY MODULE COMBINATION TABLE



① Test conditions: 90% DOD, 0.2C charger & discharger @ 25°C

② Max. charge / discharge current may be variant with different inverter models

③ Nominal / Maximum operation current and nominal / maximum power derating will occur related to temperature or SOC