

wattalps®

Battery Module

with WATTALPS' patented immersion cooling



Width	200 mm
Length	335 mm
Height	90 mm

General characteristics	Data
Module voltage (battery pack voltage)	48V (48V to 800V)
Voltage and temperature monitoring	Yes
Protection rating	IP67 / IP69K / IPXXB
Battery operating temperature	- 20°C + 60°C
Module position	All X, Y, Z orientation are possible
Max module number per Master BMS	128
Standards*	R100 rev2 / R10 / ISO26262 / IEC62619 / UN38.3
Integrated coolant circulation	Yes, with heating and cooling as option
Integrated cell venting circuit	Yes
Casing	Aluminum
Recycling and second life	Yes

* Consult us

HIGH ENERGY



Module characteristics

Performances

Total energy (C/10)	1 750 Wh
Cycle life (@25°C / SLOW charging, SOH 80%)	2 000 cycles
Cycle life (@25°C / FAST charging, SOH 80%)	400 cycles
Discharging power @25°C (cont. / peak 2s)	4 / 6,7 kW
Charging power @25°C (normal / fast)	0,5 / 1 kW

LONG LIFE



Module characteristics

Performances

Total energy (C/10)	1 485 Wh
Cycle life (@25°C / SLOW charging, SOH 80%)	3 000+ cycles
Cycle life (@25°C / FAST charging, SOH 80%)	2 000 cycles
Discharging power @25°C (cont. / peak 2s)	2 / 6 kW
Charging power @25°C (normal / fast)	0,5 / 1,4 kW

POWER



Module characteristics

Performances

Total energy (C/10)	From 500 to 1 600 Wh
Cycle life (@25°C / FAST charging, SOH 80%)	3 000 to 10 000 cycles
Discharging power @25°C (cont. / peak 2s)	5 / 8 kW
Charging power @25°C (normal / fast)	2 / 4,6 kW