MOBILE POWER SOLUTIONS

DOMETIC LIT BATTERIES

Dometic LI1 batteries provide exceptional power delivery and advanced safety features.

SMART LITHIUM BATTERIES COORDINATE BALANCING FLEXIBLE CAPACITY BANKS FROM 100-2400AH VOLTAGE FROM 12-48V RUGGED AND SAFE IP67, LIFEPO4



100AH AND 300AH MODULES

Dometic LI1 lithium batteries provide enhanced safety and communication features for unrivaled performance. These lightweight, Bluetooth®-enabled LIFEPO4 batteries have an advanced BMS, temperature management system, a built-in DC heater, and auto-cell balancing for banks of multiple modules. They can be wired in series or parallel. ETL listed to UL specifications and UKCA certified.

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Features

- Connect up to 8 in parallel and 4 in series
- Batteries coordinate balancing for long life
- Safe LIFEPO4 chemistry
- IP67
- Built-in heaters for safe charging in cold conditions
- Multiple mounting options
- Bluetooth pack configuration and monitoring

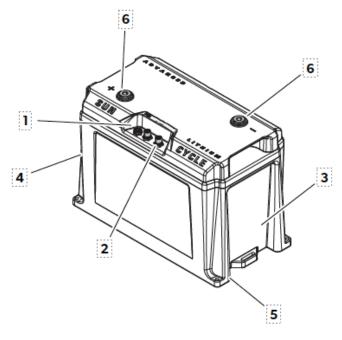




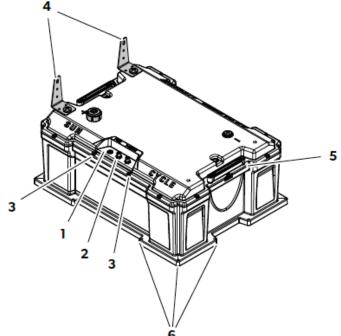


SLEEK, BOLD STYLING REDEFINES THE LOOK OF MOBILE POWER

ORDER INFORMATION	
	Part No.
Battery, Lithium 12VDC 100AH	LI112100
Battery, Lithium 12VDC 300AH	LI112300



- 1 Power button with status LED
- 2 Module communication ports (Canbus)
- 3 Integrated heater for low temperature charging
- 4 Slanted sides prevent batteries from being installed without an air gap between them for cooling.
- 5 Integrated screw holes for easy mounting. This works well for width limited enclosures.
- 6 Staggered terminals allow parallel/series connections without much wire interference.



- Power button with status LED
- 2 Module communication ports (Canbus)
- 3 Removable top lid for serviceability
- 4 Optional brackets for easy mounting to a wall
- 5 Handle clips in to keep it from flopping around
- 6 Integrated screw holes for easy mounting. This works well for width limited enclosures.



AVAILABLE IN 60A AND 100A OUTPUTS

	100 AH	300 AH	
Nominal voltage	12.	12.8 V	
Nominal capacity	100 Ah	300 Ah	
Cycle life	3000-50	00 cycles	
CHARGE			
Charging temperature range	-20 °C .	-20 °C 55 °C	
Charging voltage	14.4 V Recommer	14.4 V Recommended (14.6 V max.)	
Recommended float charging voltage	14.	14.1 V	
Recommended charging current	50 A	120 A	
Allowed max charging current	100 A	200 A	
DISCHARGE			
Discharging temperature range	-20 °C	-20 °C 55 °C	
Output voltage range	10 V	10 V 14.6 V	
Max continuous discharge current	100 A max starting temp of 77 °F(25 °C)	200 A starting temp of 77 °F(25 °C)	
Surge discharge current	120 Afor 30m starting temp of 77 °F(25 °C)	400 A for 10m starting temp of 77 °F(25 °C	
Pulse discharge current	200 A for 5s starting temp of 77 °F(25 °C)	1000 A for 1s starting temp of 77 °F(25 °C)	
Pulse discharge current	400 A for 3s starting temp of 77 °F(25 °C)	-	
Low voltage end-of-discharge voltage	9.2 V	± 0.1 V	
MECHANICAL CHARACTERISTICS			
Dimensions	length: 304.8 mm	length: 473 mm	
	width: 171.45 mm	width: 360 mm	
	height: 228.6 mm	height: 238 mm	
Weight	11 kg	33.1 kg	
Ingress protection		67	
STORAGE	"	c <i>,</i>	
Storage temperature & humidity range	1Week	-20 °C 50 °C, 45 % 85 % RH	
	1 Month	-20 °C 45 °C, 45 % 85 % RH	
		·	
	6 Months	-20 °C 40 °C, 45 % 85 % RH	
Long term storage	and stored at the storage specifications sho	If the battery needs to be stored for > 3 months the voltage should be 13.2 V(50 %SOC), and stored at the storage specifications shown above. Additionally, the battery needs at least one charge and discharge cycle every six months.	
вмѕ			
Balancing	balance start voltage	cell → 3380 mV	
	balance start voltage difference	>50 mV	
	balance off voltage difference	√ 30 mV	
Current	charge balance current for single cell	40 mA 50 mA	
	self-discharge current (active mode)	≤ 40 mA	
	self-discharge current (shutdown mode)	⟨ 20 μA	
	max charge/discharge current	100 A/100 A	

Note: Specifications are subject to change without notice.



FET high temperature release <90±3 °C Single cell high voltage alarm when max cell >=3750 mV alarm clear when max cell <=3600 mV	TECHNICAL INFORMATION			
Over discharge protection Over discharge protection Over discharge protection voltage Over discharge protection voltage Over discharge protection delay Over discharge protection delay Over discharge protection delay Over discharge release voltage BMS shutdown BMS shutdown time Shutdown time Other protection Other over current protection Charge over current protection Charge over current protection current Charge over current protection Other over current protection current Charge over current protection current Other over current protection delay Over current protection delay Over current protection delay Over current protection delay	Over charge protection	over charge protection voltage	3.8 V±0.02 V/cell	
Over discharge protection over discharge protection voltage over discharge protection delay over discharge release voltage BMS shutdown shutdown voltage min cell voltage recover to 2.8 V±01 Vand charging min cell voltage recover to 2.8 V±01 Vand charging min cell voltage recover to 2.8 V±01 Vand charging min cell voltage recover to 2.8 V±01 Vand charging min cell voltage recover to 2.8 V±01 Vand charging min cell voltage recover to 2.8 V±01 Vand charging min cell voltage recover to 2.8 V±01 Vand charging min cell voltage recover to 2.8 V±01 Vand charging min cell voltage recover to 2.8 V±01 Vand charging min cell voltage recover to 2.8 V±01 Vand charging min cell voltage recover to 2.8 V±01 Vand charging min cell voltage recover to 2.8 V±01 Vand charging min cell voltage recover to 2.8 V±01 Vand charging min cell voltage recover to 2.8 V±01 Vand charging min cell voltage recover to 2.8 V±01 Vand charging min cell voltage recover to 2.8 V±01 Vand charging min cell voltage recover to 2.8 V±01 Vand charging min cell voltage recover to 2.8 V±01 Vand charging min cell voltage alarm or charge over current protection current (1) 10 A±5 A discharge over current protection cleasy discharge over current protection delay (2) over current release discharge over current protection current (3) discharge over current protection current (3) 450 A±5 A discharge over current protection current (3) 450 A±5 A discharge over temperature protection charge high temperature protection charge logh temperature protection charge logh temperature protection charge logh temperature protection discharge high temperature protection charge logh temperature release charge logh temperature release charge logh temperature protection charge logh temperature release charge logh temperature release charge logh temperature release charge logh temperature release charge		over charge protection delay time	2 s	
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MOSFET temp>=105 °C cell max temp>=57 °Cor				
charge mode: cell max temp>=57 °Cor	High temperature alarm	discharge mode:		
			MOSFET temp>=105 °C	
MOSFET temp>=105 °C		charge mode:	cell max temp>=57 °Cor	
			MOSFET temp>=105 °C	

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TECHNICAL INFORMATION		
High temperature alarm clear		cell max temp<=55 °Cor
		MOSFET temp<=90 °C
Low temperature alarm	min cell temp<3 °C	
Low temperature alarm clear	min cell temp>=5 °C	
Discharge current alarm	discharge current>130 A	
Discharge current alarm clear	discharge current<100 A	
Low SOC alarm	remaining capacity <7 Ah OR min cell voltage<=2500 mV	
Low SOC alarm clear	remaining capacity >=7 Ah OR min cell voltage>=2800 mV	
LED	power ON mode	LED solid
	sleep mode	LED blink
	power OFF mode	LED off
Reserve mode	enter reserve mode	battery remain capacity < 5 A OR min cell voltage <2.5 V
	exit reserve mode	pack SOC>5 Ah AND min cell voltage >= 2.5 V AND charging OR button pressed for 3 s
Communication	CANbus and BLE	protocol: RV-C with baud rate 250Kbs
Capacitor pre-charge		arge function to charge bulk
	capacitors in inverters to avoid surge current	
Heater control auto	ON	1) If cell temperature 0 °C <t<2 and="" battery="" in="" is="" mode="" on="" pack="" power="" terminal="" voltage="" °c,="">=13.8 V or charging current >10 A</t<2>
		2) If cell temperature T<0 °C, battery is in power ON mode and pack terminal voltage >=13.8 V
		3) If cell temperature T<2 °C and battery is in sleep mode, heater always ON
	OFF	1) If cell temperature T<2 °C, battery is in power ON mode and pack terminal voltage <=13.5 V or discharge current for 10 s
		2) If cell temperature T>=7 °C and battery is in power ON mode or sleep mode
enabled	ON	If cell T<2 °C
	OFF	If cell T>7 °C
disabled	always OFF	

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