


# Technical Datasheet

## Waterproof Battery Chargers(IP65)



 **Atlas-1800W Series :** IP65 water resistant. With one (1) or multiple selectable charge profiles and customized parameters.

<b>DC Output</b>								
Cell type	LiFePO4 Batteries 3.6V/cell (nom.)			Li-ion Batteries 4.2V/cell (nom.)			Lead-based Batteries	
	16S	20S	23S	14S	17S	20S	48V	60V
Ladespannung max.  Charge Volt. max. (+/-1%)	57.6V	72V	82.8V	58.8V	71.4V	84V		
Ladestrom max. Charge Current max. (+/-1%)	30A	25A	22A	30A	25A	22A	30A	25A
Efficiency max.	>93% @ 230V							
Output Power, nom.	1800W							
Ripple	<1%							
Back Current	<1mA							
Charge Cable	1.5m open cable ends							
<b>AC Input</b>								
Input Voltage	230VAC / 50Hz							
Power Cord & Plug	Country Specific							
<b>Enclosure</b>								
Material	Extruded aluminum alloy housing, Anode surface treatment							
Dimension / Weight	287*200*97mm/ ca. 5.2kg							
LED-Indicators	Mains-, Error-, Charging-, Full and Battery type Indicator							
Protection Class	1							
IP Code	IP65							
Operating Temp.	-20°C to +40°C							
Cooling	Nature Cooling							
<b>Special Features</b>								
4-Step Charge Characteristics**	Charge Cut-off at "Battery-Full" (Current Detection)							
Charge Parameter	Charge Profile Configurable via IR-Port							
Automat. Battery Wake-up	The charger, after "Power-on", activates the BMS with pre-defined voltage pulses							
Device Protection	Over temperature-, Short Circuit-, Reverse Polarity-, Overload Protection							
<b>Certification</b>								
	CE, UKCA							

Specifications of the battery manufacturer take priority!

Different charge profiles available on request.

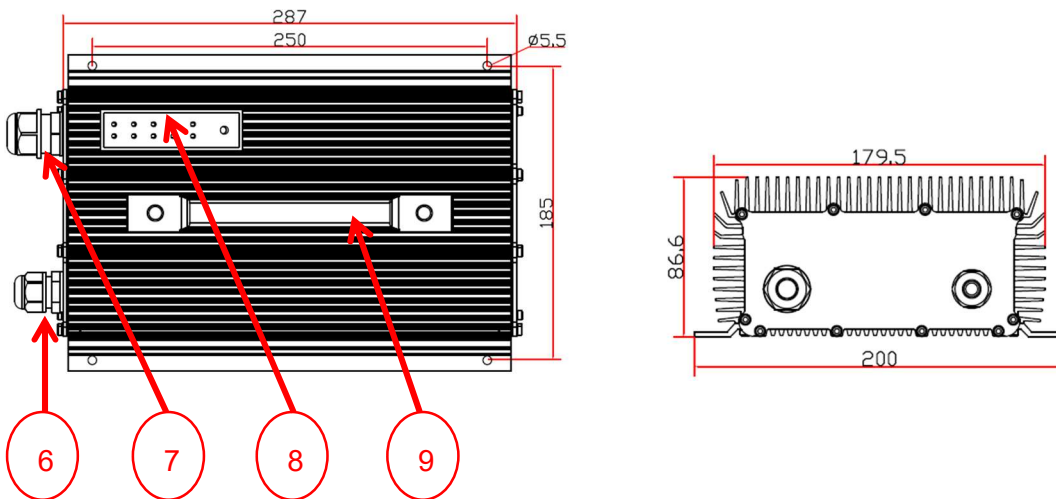
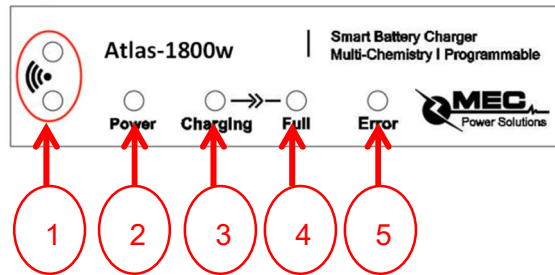
Optional features available on request.

## Atlas-1800W Series

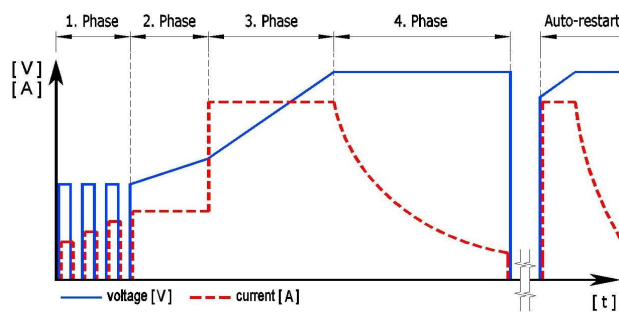
### Product Drawings

Models Targeting Lithium-based Batteries

1. IR connection LEDs	2. Power LED (Green)	3. Charging LED (Yellow)
4. Full LED (Green)	5. Error LED (Red)	6. AC Cable
7. DC Cable/ Connect Terminal	8. LED Board	



### 4-Step Charge Profile



	1. Phase (Pulsing)	2. Phase (CC1)	3. Phase (CC2)	4. Phase (CV)	Auto Restart
Ladespannung max. Charge Voltage max.	Nominal Voltage	~70% Nomial Voltage	Nominal Voltage	Nominal Voltage	Nach vorbestimmter Anzahl v. Tagen / Batt. Spannung
Ladestrom max. Charge Current max.	50% $I_{max}$	50% $I_{max}$	$I_{max}$	$I_{max}$	
Ladestrom min. Charge Current min.	25% $I_{max}$	25% $I_{max}$	50% $I_{max}$	10% $I_{max}$	
Schaltkriterium für nächste Phase Trigger Criterion for next Phase	3.0V/cell (10 cycles)	$U_{bat} \geq 2.5V/cell$ / timer 4h	$U_{bat} \geq U_{max}$ / timer 20h	$I_b < I_{min}$ / timer 8h	At a pre-set number of days or voltage level