

PELTON

DATASHEET

Nominal Parameters

Battery Technology	Lithium Iron Phosphate (LiFePo4)			
Model	**PELTON-48V314A**	**PELTON-48V200A**	**PELTON-48V314A**	**PELTON-24V314A**
Nominal Voltage	51.2V			25.6V
Rated Capacity	314Ah	200Ah	100Ah	314Ah
Energy	16,076Wh	10,240Wh	8,038Wh	
Compatible Application	48V Systems			24V Systems
Depth of Discharge (DoD)	80%			
Cycle life	6,000 Cycles			
Dimension	530 x 203 x 840mm	480 x 177 x 820mm	383 x 122 x 820mm	383 x 122 x 820mm
Weight	About 105kg	About 85kg	About 40kg	About 40kg
Warranty	5 Years			

Electrical Characteristics

Charge Voltage	57V	28.5V
Float Voltage	56V	28V
Cut-off Voltage	48V	24V
Active Balancing Current	5A	
Max. Charge Current	150A	
Max. Discharge Current	150A	
Max. Parallel Connection	11	
Series Connection	Not Supported	

Operating Conditions

Installation Location	Indoor (Standing)
Temperature Range	0°C - 55°C
Enclosure	Metallic
IP Rating	IP20
Maintenance	Charge the battery once in 3 months when in storage or inactive status

Features

BMS	Pelton Proprietary BMS
Communication	Bluetooth, BLE (5m – 10m)
Mobile Application	Android
Screen Display	LCD Always ON
Active Balancing	Yes
Integrated Smart Cooling	Yes
Alarm Notification	Yes
Multiple Temp. Sensors	MOSFET, Cell
Error Message	Readable Plain Text (English)

Protection

Protection	Over Voltage Protection
	Under Voltage Protection
	Over Current Protection
	Over Temperature Protection
	Under Temperature Protection
	Short Circuit Protection