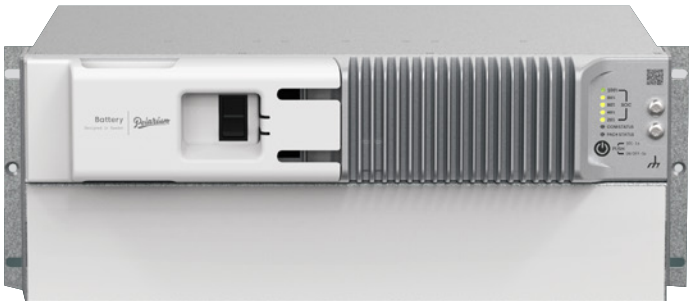


# SLB48-100-145-5

BATTERY 19" 4U / 100AH  
15S SERIES, GENERATION 5



Polarium Battery is an advanced power backup system for telecom use. Its rechargeable smart lithiumion battery provides reliable power backup for hybrid, off-grid and grid-connected telecom sites worldwide.

**SAFE**

All our products are designed with your safety in mind - thoroughly verified and certified for safe operation.

**SIMPLE**

Advanced technology made super easy to use. easy to install, maintenance free, charge control.

**STRONG**

Works in all conditions and environments. Extra protection against dust and moisture for prolonged life.

**SMART**

Automatic balancing, automatic reconnect, remote monitoring options and much more.

**SECURE**

Our unique, patented Anti-Theft Device disables function of batteries if removed from site. It's prepared for optional GPS tracker.

**SUSTAINABLE**

The lifetime is extraordinary long. It's small, light, maintenance free and can be remotely controlled.

DS1001455-PR1.0

**Technical Specifications**

Enclosure Size	19" 4U
Lithium Chemistry	LFP
Rated Voltage	48 V
Rated Capacity Ah (0.2C, 25°C to 39 V)	100 Ah
Rated Energy Wh (0.2C, 25°C to 39 V)	4800 Wh
Calendar Life @ 80% SOC	15 years
Peak Discharge Power	6kW for 60 seconds
Discharge Cutoff Current	100 A
End-of-Discharge Voltage (LVBD)**	39 V
Charge Current Limitation (CLD)*	100 A
Charge Voltage for 100% SOC	54.75 V
Operating Temperature Charging	0 to +55°C (32 to 131°F)
Operating Temperature Discharging	-20 to +60°C (-4 to 140°F)
Operating Relative Humidity	According to ETSI 300 019-1-3 class 3.2 (0-95%)
Storage Temperature	-20 to +60°C (-4 to 140°F)
Weight	Approx. 45 Kg (99.2 lbs)
Dimensions mm (in")	W 440 D 420 H 173 (W 17.3" D 16.5" H 6.9")
Circuit breaker	100 A, BMS Controlled, single pole
IP class	IP20
Communication Protocols	RS485, RJ45 (2) ports, Modbus
Safety Standards	IEC62619, IEC62368, UN38.3
Management & Monitoring	Software for PC (Incell Studio) included for full local monitoring and management. Remote connection via Modbus

\*If the recharge current is 100A or higher, the battery will automatically reduce the charge current to 6-12A temporarily  
Data subject to change without notice

Constant Current (A) @ 25°C. Duration / Hours

EODV		1	2	3	4	5	6	7	8	9	10	12	14	16	20	24
	50	71.8	39.3	27.0	20.6	16.6	13.9	12.0	10.5	9.4	8.4	7.0	6.1	5.3	4.3	3.6
	48.5	78.7	41.9	28.6	21.6	17.4	14.6	12.5	11.0	9.8	8.8	7.3	6.3	5.5	4.4	3.7
	47	84.7	44.2	29.9	22.5	18.1	15.1	13.0	11.4	10.1	9.1	7.6	6.5	5.7	4.6	3.8
	45.5	89.6	46.0	30.9	23.3	18.6	15.6	13.3	11.7	10.4	9.3	7.8	6.7	5.8	4.7	3.9
	44	93.1	47.3	31.7	23.8	19.1	15.9	13.6	11.9	10.6	9.5	7.9	6.8	6.0	4.8	4.0
	42.5	95.0	48.1	32.1	24.1	19.3	16.1	13.8	12.1	10.7	9.6	8.0	6.9	6.0	4.8	4.0
	41	95.2	48.2	32.3	24.2	19.4	16.2	13.8	12.1	10.8	9.7	8.1	6.9	6.0	4.8	4.0
	39.5	95.2	48.2	32.3	24.2	19.4	16.2	13.8	12.1	10.8	9.7	8.1	6.9	6.0	4.8	4.0
	38	95.2	48.2	32.3	24.2	19.4	16.2	13.8	12.1	10.8	9.7	8.1	6.9	6.0	4.8	4.0

Constant Power (W) @ 25°C. Duration / Hours

EODV		1	2	3	4	5	6	7	8	9	10	12	14	16	20	24
	50	3488	1919	1324	1010	816	684	588	516	460	415	346	297	261	209	175
	48.5	3808	2040	1394	1058	852	713	613	537	478	431	360	309	270	217	181
	47	4087	2144	1454	1099	884	738	634	555	494	445	371	318	279	223	186
	45.5	4311	2228	1502	1133	909	758	651	570	507	456	380	326	285	228	190
	44	N/A	2287	1537	1157	927	773	663	580	516	464	387	332	290	232	193
	42.5	N/A	2322	1557	1171	938	782	671	587	522	469	391	335	293	234	195
	41	N/A	2329	1563	1175	942	785	673	589	524	471	393	336	294	235	196
	39.5	N/A	2329	1563	1175	942	785	673	589	524	471	393	336	294	235	196
	38	N/A	2329	1563	1175	942	785	673	589	524	471	393	336	294	235	196

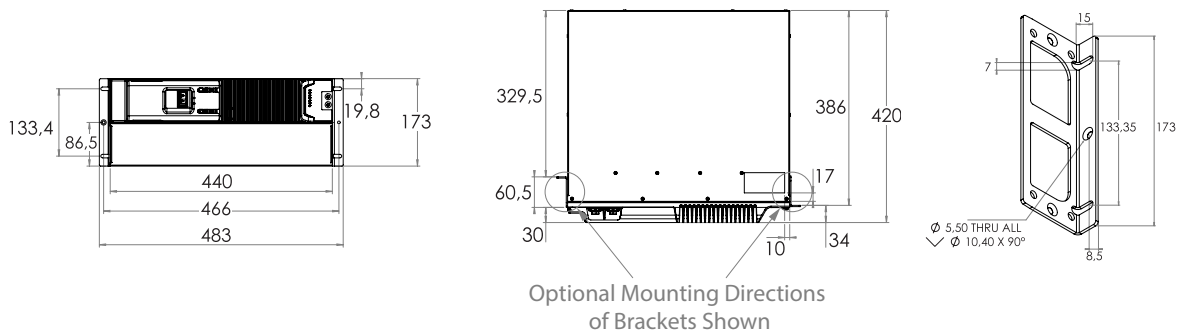
Energy / Wh @ 25°C. Duration / Hours

EODV		1	2	3	4	5	10
	50	3488	3838	3972	4039	4078	4146
	48.5	3808	4081	4183	4233	4262	4310
	47	4087	4289	4362	4398	4418	4449
	45.5	4311	4455	4506	4530	4543	4561
	44	4471	4575	4610	4626	4634	4643
	42.5	4558	4643	4672	4684	4690	4694
	41	4568	4658	4688	4702	4708	4713
	39.5	4568	4658	4688	4702	4708	4713
	38	4568	4658	4688	4702	4708	4713

Capacity / Ah @ 25°C. Duration / Hours

	Voltage (V)		
	0.2 C	0.5 C	1.0 C
100%	51.3	51.3	51.3
90%	49.5	48.9	48.6
80%	49.4	48.8	48.6
70%	49.2	48.6	48.4
60%	49.0	48.5	48.3
50%	48.9	48.4	48.2
40%	48.8	48.2	48.1
30%	48.5	48.0	47.9
20%	48.0	47.6	47.5
10%	47.4	46.9	46.9
0%	40.5	40.4	39.0

Technical Drawings



***Authorised, valued-added distributor***

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