

FORTRON/SOURCE

Specification									
Nominal Voltage	12V								
Nominal Capacity(20HR)	4.5AH								
	Length	90±1mm (3.54 inches)							
Dimensions	Width	70 \pm 1mm (2.76 inches)							
Dimensions	Container Height	-							
	Total Height (with Terminal) 107 \pm 2mm (4.21 inches)								
Approx Weight	Approx 1.48 kg (3.2	26lbs)							
Terminal	T1								
Container Material	ABS								
	4.50 AH/0.225A	(20hr ,1.80V/cell,25 C/77 F)							
	4.19 AH/0.419A	(10hr,1.80V/cell,25 C/77 F)							
Rated Capacity	3.78 AH/0.756A	(5hr,1.75V/cell,25 C/77 F)							
	3.30 AH/1.10A	(3hr,1.75V/cell,25 C/77							
	2.73 AH/2.73A	(1hr,1.60V/cell,25 C/97 F)							
Max. Discharge Current	67.5A (5s)								
Internal Resistance	Approx 40mÙ								
	Discharge : -15⁄ 50° C (5⁄122°F)								
Operating Temp.Range	Charge : 940° C (32-104 F)								
	Storage ÷15~40°C (5~104°F)								
Nominal Operating Temp. Range	25±3°C(77±5℉)								
	Initial Charging Current less than 1.35A.Voltage								
Cycle Use	14.4V~15.0V at 25 C(77 F)Temp. Coefficient -30mV/ C								
	No limit on Initial Cha	arging Current Voltage							
Standby Use	13.5V~13.8V at 25 C(77 F)Temp. Coefficient -20mV/ C								
Capacity affected by	40°C (104°F)	103%							
Temperature	25°C (77°F)	100%							
	0°C (32°F)	86%							
Self Discharge	at 25 C(77 F) and the	FSP series batteries may be stored for up to 6 months at 2° C(77 F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.							

FSP Series-General Purpose

FSP1245(12V4.5Ah)



Applications

- All purpose
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply ٠
- Emergency light ٠
- Railway signal ٠
- Aircraft signal ٠
- Alarm and security system ٠
- Electronic apparatus and equipment ٠
- Communication power supply ٠
- DC power supply ٠
- Auto control system



Constant Current Discharge (Amperes) at 25 C° (77 F°)															
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	8.64	6.02	4.97	4.31	3.46	2.66	2.17	1.33	1.01	0.831	0.706	0.611	0.486	0.404	0.223
1.80V/cell	10.6	7.19	5.76	4.87	3.83	2.90	2.34	1.41	1.06	0.874	0.736	0.638	0.504	0.419	0.225
1.75V/cell	12.6	8.13	6.35	5.31	4.09	3.08	2.46	1.47	1.10	0.901	0.756	0.654	0.518	0.427	0.227
1.70V/cell	14.3	8.96	6.88	5.70	4.29	3.20	2.57	1.53	1.14	0.924	0.775	0.670	0.525	0.434	0.231
1.65V/cell	15.7	9.64	7.27	5.98	4.47	3.32	2.67	1.58	1.17	0.943	0.792	0.683	0.534	0.440	0.234
1.60V/cell	16.5	10.0	7.58	6.17	4.60	3.40	2.73	1.63	1.19	0.966	0.808	0.696	0.545	0.447	0.236

Constant Power Discharge (Watts / Cell) at 25 C°(77 F°)															
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	16.3	11.5	9.55	8.35	6.74	5.21	4.28	2.63	2.01	1.66	1.41	1.23	0.977	0.815	0.450
1.80V/cell	19.8	13.6	11.0	9.37	7.41	5.65	4.58	2.78	2.10	1.73	1.46	1.27	1.01	0.838	0.452
1.75V/cell	23.2	15.2	12.0	10.1	7.86	5.96	4.80	2.88	2.16	1.78	1.49	1.30	1.03	0.849	0.453
1.70V/cell	26.0	16.6	12.9	10.8	8.20	6.16	4.97	2.98	2.22	1.81	1.52	1.32	1.04	0.858	0.459
1.65V/cell	28.3	17.6	13.4	11.2	8.48	6.36	5.15	3.05	2.27	1.84	1.55	1.34	1.05	0.866	0.463
1.60V/cell	29.2	18.1	13.9	11.4	8.62	6.44	5.22	3.13	2.31	1.87	1.57	1.36	1.07	0.876	0.464

Dimensions

12V Battery (V) 13.0

12.0

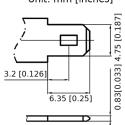
11.0

10.0

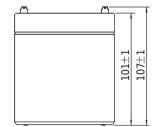
Voltage(V)

Prmi 9.0

T1 Terminal Unit: mm [inches]



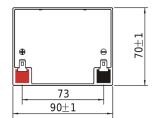
Discharge Characteristics

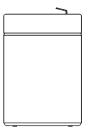


Temperature:25 C(77F)

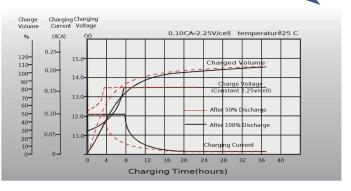
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6 8 1 0





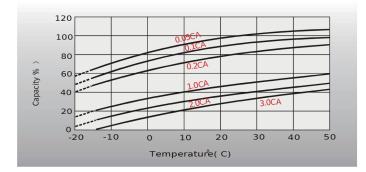
Float Charging Characteristics



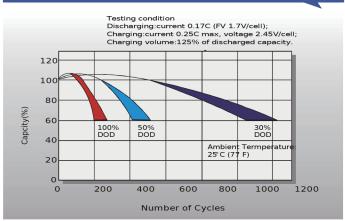
Discharge Time

Temperature Effects In Relation to Battery Capacity

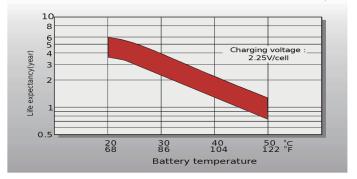
28



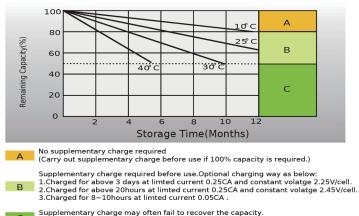
Cycle Life in Relation to Depth of Discharge



Effect of Temperature on Long Term Float Life



Self Discharge Characteristics



Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this is reached.

Fortron Source (Europa) GmbH

https://www.fsp-europe.com/