E-59 Keywords Y1 material or part Z4 electricity E29 electrical machinery

The Furukawa Battery Co., Ltd.

Maximum life of 20 years: Lead-acid battery for renewable energy storage

Features

The FCP (FCP-S) series is a valve-regulated, stationary lead-acid battery that offers a long life and high performance, even in energy storage applications, which require frequent charging and discharging, such as renewable energy power generating facilities.

- Optimally suited for renewable energy systems
- Significantly improves cycle life performance
- Easy maintenance
- High level of safety



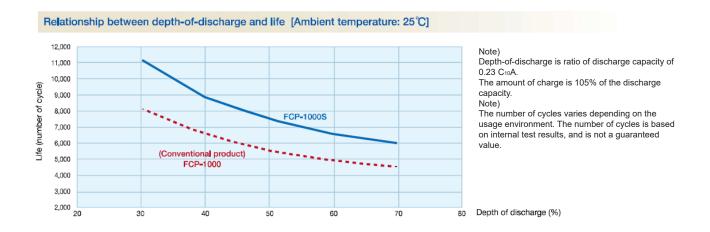
FCP-1000, a set of 48 units (48V-1000Ah)

Overview or Principle

The FCP series of products are available as conventional FCP series and super long-life FCP-S series of products.

Conventional FCP series: Approx. 4,500 cycles (25°C, DOD 70%) Expected life: Approx. 15 years Super long-life FCP series: Approx. 6,000 cycles (25°C, DOD 70%) Expected life: Approx. 20 years * This is the expected value under our recommended operating conditions.

- · Super-long extension of life for cycle applications
- Usable with PSOC (*) also
- · Unit structure facilitates multi-layered installations
- Superior maintainability (no electrolyte maintenance required)
 * PSOC: Partial State Of Change partially charged condition.



Specifications are detailed below

	FCP Series		FCP-S Series	
Туре	FCP-500	FCP-1000	FCP-500S	FCP-1000S
Capacity / Voltage	500 Ah / 2 V	1000 Ah / 2 V	500 Ah / 2 V	1000 Ah / 2 V
Number of cycles (DOD 70%)	4,500 cycles Discharge current: 0.23 C10A		6,000 cycles Discharge current: 0.23 C10A	
Maximum operating life	Approx. 15 years*		Approx. 20 years*	
Installation method	Horizontal multiple superimposed loading		Horizontal multiple superimposed loading	
Maximum charge current during operation	100 A(0.2 C10A)	200 A(0.2 C10A)	100 A(0.2 C10A)	200 A(0.2 C10A)
Maximum discharge current during operation	200 A(0.4 C10A)	400 A(0.4 C10A)	200 A(0.4 C10A)	400 A(0.4 C10A)
Battery monitoring unit	BMU for lead-acid storage batteries		BMU for lead-acid storage batteries	
Remarks	Standard type		Long life type	

Installation in Practice or Schedule

DomesticBesides the FCP series, we offer a wide range of lead-acid batteries for renewable energy,
which are suitable for medium-capacity models and models suitable for high charging and
discharging rates. Our delivery records for these products are described below.



Contact: The Furukawa Battery Co., Ltd. Global Business Development Department https://corp.furukawadenchi.co.jp/en/contact.html