

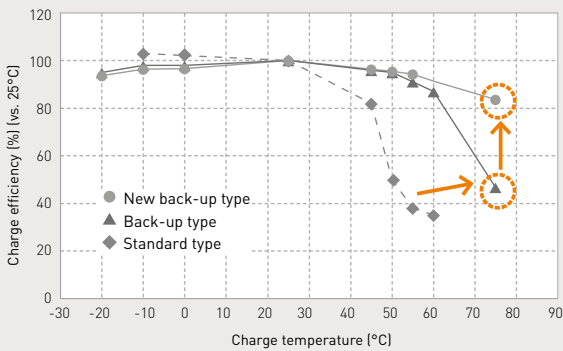


EXCELLENT CHARGING PERFORMANCE IN HIGH TEMPERATURE ENVIRONMENT (UP TO 75°C)

Extended upper temperature limit: 60°C to 75°C

46% BACK-UP TYPE
180% → CHARGING EFFICIENCY about 1.8 times
84% **NEW** BACK-UP TYPE

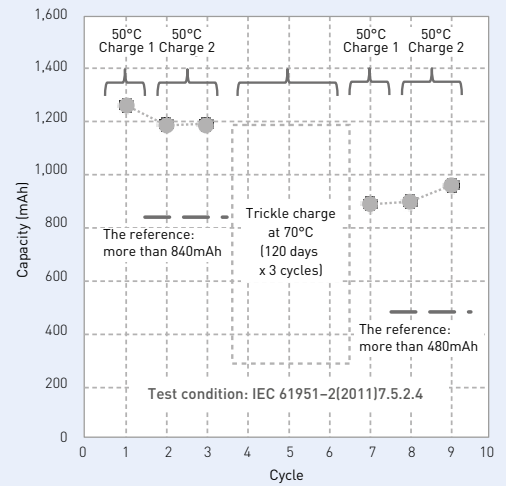
CHARGING CHARACTERISTICS



Test condition
 Charge: 0.1It x 16h
 Charge temperature: -20°C ~ 75°C
 Rest: 3h
 Discharge: 0.2It to 1.0V cut off
 Discharge temperature: 25°C

GOOD BALANCE IN TERMS OF CAPACITY AND LIFETIME LONG-LIFE EXPECTANCY AT TRICKLE CHARGING

LONG-LIFE CHARACTERISTICS OF BK-120AAHU



SUITABLE USE OF BK-120AAHU



Charge Discharge	Wide temperature range (-20°C to 75°C)
Storage	Low self-discharge (enloop technology)
Life	10 years durable cell*
Safety	IEC62133 compliant & no hazard substances

* Values for expected battery life are reference values only. The expected life varies depending on the conditions in which the battery is used.

SUITABLE BATTERIES

Specifications	BK-120AAHU	BK-220SCHU	BK-310CHU		
Diameter (mm)	14.5 0/-0.7	23.0 0/-1.0	25.8 0/-1.0		
Height (mm)	50.5 0/-1.5	43.0 0/-1.5	50.0 0/-2.0		
Approximate weight (g)	24	52	80		
Nominal voltage (V)	1.2	1.2	1.2		
Discharge capacity (mAh)*1	Typical*2	1,280	2,350	3,300	
	Nominal	1,200	2,200	3,100	
Approx. internal impedance at 1,000Hz at charged state (mΩ)	17	5	5		
Charge (mA x hrs.)	Standard	120 x 16	220 x 16	310 x 16	
	Rapid*3	600 x 2.4	1,100 x 2.4	1,550 x 2.4	
	Low rate	60 x 32	110 x 32	155 x 32	
		40 x 48	73 x 48	103 x 48	
Ambient temperature	Charge (°C)	Standard	-20 to 75	-20 to 75	-20 to 75
		Rapid	-20 to 60	-20 to 60	-20 to 60
		Low rate	-20 to 75	-20 to 75	-20 to 75
	Discharge (°C)		-20 to 75	-20 to 75	-20 to 75
			-20 to 35	-20 to 35	-20 to 35
			-20 to 45	-20 to 45	-20 to 45
Storage (°C)	<1 year	-20 to 35	-20 to 35	-20 to 35	
	<6 months	-20 to 45	-20 to 45	-20 to 45	
	<1 month	-20 to 55	-20 to 55	-20 to 55	
	<1 week	-20 to 65	-20 to 65	-20 to 65	

*1 After charging at 0.1It for 16 hours, discharging at 0.2It. *2 For reference only. *3 Needs specially designed control system. Please contact Panasonic for details.

Battery performance and cycle life are strongly affected by how the batteries are used. In order to maximise battery safety, please consult Panasonic when determining charge/discharge specs, warning label contents and design. The data in this document are for descriptive purposes only and are not intended to make or imply any guarantee or warranty.