

EZA11K-320240

V009-01-01C

SPECIFICATIONS

P.1/4

Item	Model Name	EZA11K-320240	
		LVDC (Battery side)	HVDC (Grid side)
1	Rated Voltage	-	240VDC 320VDC
2	Voltage Range (*1,*2)	-	150VDC - 300VDC 240VDC - 400VDC
3	Rated Current	-	$\pm 45.8A$ $\pm 34.4A$
4	Constant Current Setting Range (*1,*2)	-	1.0A - 50A 1.0A - 40A
5	Maximum Output Power	-	$\pm 11,000W$ $\pm 11,000W$
6	Maxmum Current		$\pm 50A$ $\pm 40A$
7	Efficiency (typ) (*3)	-	95% 95%
8	Required Pre-charge Voltage (*1)	-	More than output lower limit voltage More than output lower limit voltage
9	Inrush Current (typ) (*4)	-	3.6A 3.6A
10	Maximum Line Regulation	-	1.2V 1.6V
11	Maximum Load Regulation	-	2.4V 3.2V
12	Maximum Temperature Regulation	-	1.5V 2.0V
13	Output Ripple and Noise	-	Less than 3Vp-p Less than 4Vp-p
14	Sink Current (typ) (*5)	-	1.6A 1.2A
Protection			
1	Output Over Current Protection (typ) (*6,*7)	-	70A (Output shut down) 60A (Output shut down)
2	Over Power Protection (typ) (*6)	-	12,000W (Constant power) 12,000W (Constant power)
3	Input Current Limitation (typ) (*6)	-	52A(Constant current) 42A(Constant current)
4	Over Voltage Protection (*2)	-	Possible (Setting range : 144V - 306V) Possible (Setting range : 230V - 410V)
5	Under Voltage Protection (*2)	-	Possible (Setting range : 144V - 306V) Possible (Setting range : 230V - 410V)
Function			
1	Remote ON/OFF	-	Possible (Control via RS-485 or Extra signal)
2	Remote Reset	-	Possible (Latch off via RS-485, RESET SW or External Signal)
3	External Signal	-	RUN : Operate at short, Stop at open STOP : Stop at falling edge CHRG : Change function by Operation mode (*9) ALMCLR : Alarm clear and Run at rising edge ALM : Open under Alarm condition (Open Drain) PG : Short under Operation (Open Drain) 5Vs : 5V Output (5V, 0.2A) 24Vi : 24V Input for RS-485 communication
4	Parallel operation (*8)	-	Possible (Droop method)
External Function (RS-485)			
1	Voltage Setting Accuracy	-	Less than $\pm 6.0V$
2	Current Setting Accuracy	-	Less than $\pm 1.0A$
3	Voltage Setting Resolution	-	Less than 0.6V
4	Current Setting Resolution	-	Less than 100mA
5	Voltage Reading Accuracy	-	Less than $\pm 6.0V$
6	Current Reading Accuracy	-	Less than $\pm 1.0A$
7	Voltage Reading Resolution	-	Less than 0.6V
8	Current Reading Resolution	-	Less than 100mA
9	RS-485 Baud Rate	-	19.2kbps / 33.6kbps / 57.6kbps (Set by DIP-SW)
10	RS-485 Maximum Connection	-	14

EZA11K-320240

V009-01-01C

SPECIFICATIONS

P.2/4

Item	Model Name	EZA11K-320240	
		LVDC (Battery side)	HVDC (Grid side)
Environmental			
1	Operating Temperature	-	-10°C - +50°C
2	Operating Humidity	-	30 - 85%RH (No Condensing)
3	Storage Temperature	-	-20°C - +70°C
4	Storage Humidity	-	20 - 85%RH (No Condensing)
5	Vibration	-	No Operation, 10-55Hz (Sweep 1min) 19.6m/s ² Constant, X, Y, Z Each Direction 1hour
6	Shock	-	196.1m/s ² maximum
7	Cooling	-	Forced Air Cooling by built-in FAN (Air Intake)
8	Installation Location	-	Indoor use
9	Altitude	-	Less than 3,000m
Isolation			
1	Withstand Voltage	-	Primary(320V) - Secondary(240V) : 2.2kVAC(50mA) 1min Primary(320V) - Signals : 3kVAC(50mA) 1min Secondary(240V) - Signals : 3kVAC(50mA) 1min Primary(320V) - Chassis : 2kVAC(50mA) 1min Secondary(240V) - Chassis : 2kVAC(50mA) 1min Signals - Chassis : 400VAC(100mA) 1min
2	Insulation Resistance	-	Primary(320V) - Chassis More than 100MΩ at 1kVDC 25°C, 70%RH Secondary(240V) - Chassis More than 100MΩ at 1kVDC 25°C, 70%RH Signals - Chassis More than 100MΩ at 500VDC 25°C, 70%RH
Safety			
1	Safety	-	Approved by UL62368-1, CSA62368-1, EN62368-1. Approved by UL60950-1, CSA60950-1, EN60950-1.
Physical Characteristics			
1	Weight	-	Less than 20 kg
2	Size (W x H x D)	mm	422.8 x 43.6 x 530 (Refer to outline drawing)

Please read instruction manual Carefully, before using the unit.

=Notes=

- *1. Please refer to Derating Curve.
- *2. It can be set via RS-485.
- *3. Ta=25°C, rated voltage and rated current.
- *4. Not applicable for the inrush current to Noise filter for less than 0.2ms.
- *5. Current sink appear when applied voltage is greater than output target voltage.
- *6. Parameter is fixed.
- *7. Shut down method, manual reset.(Latch off via RS-485, RESET SW or External Signal)
- *8. Droop ratio can be set via RS-485.
- *9. Heteronomy CV mode : Generate at short, Regenerate at open.
Grid Autonomy CV mode : Heteronomy Generate at Short, Autonomy at open.
Battery Autonomy mode : No function.

EZA11K-320240

V009-01-01C

SPECIFICATIONS

P.3/4

Item	Model Name		EZA11K-320240 Operation Mode (*10)
Heteronomy CV mode			
1 Operation mode	-		Output voltage control at Generation and Regeneration.
2 Power Conversion Direction State Method	-		External Signal CHRG or control via (RS-485)
3 LVDC CC at Regeneration	-		Possible (Control LVDC current constant).
4 LVDC, HVDC 0V Ramp up	(*12)	-	Possible
5 Battery Over Charge Protection	(*13)	-	Possible
6 Battery Over Discharge Protection	(*13)	-	Possible
Grid Autonomy CV mode			
1 Power Conversion mode	-		Control HVDC voltage constant.
2 Dead Zone set	(*13)	-	Possible
3 LVDC, HVDC 0V Ramp up	(*12)	-	Possible
4 Battery CC mode	(*13)	-	Possible (Control battery side current with constant current mode)
5 Forced Charge mode	(*11)	-	Possible (Change to Heteronomy CV mode)
6 Battery Over Charge Protection	(*13)	-	Possible
7 Battery Over Discharge Protection	(*13)	-	Possible
Battery Autonomy CV mode			
1 Power Conversion mode	-		Control LVDC voltage constant.
2 LVDC, HVDC 0V Ramp up	(*12)	-	Possible

Please read instruction manual Carefully, before using.

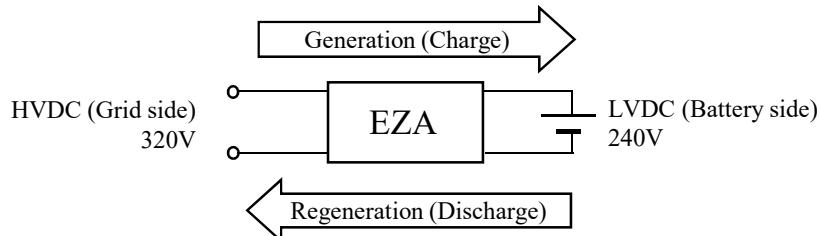
=Note=

*10. Control mode can be set via RS-485 or DIP-SW setting.

*11. It can be changed by External Signal.

*12. It can start up under pre-charge voltage (LVDC : less than 150V, HVDC : less than 240V).

*13. It can be set via RS-485.



Direction of Generation and Regeneration

Derating Curve

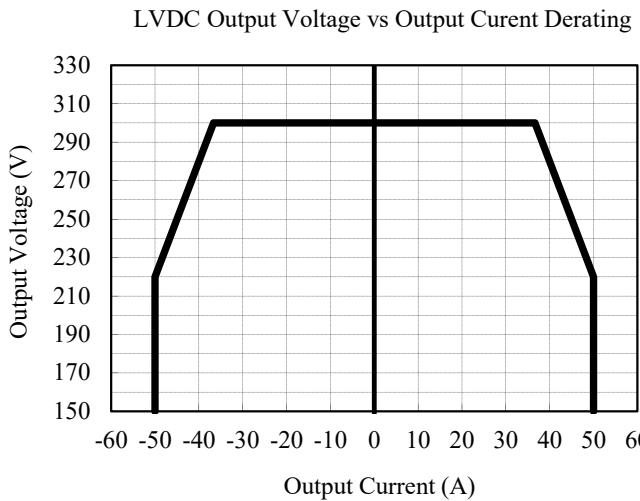


Fig. 1

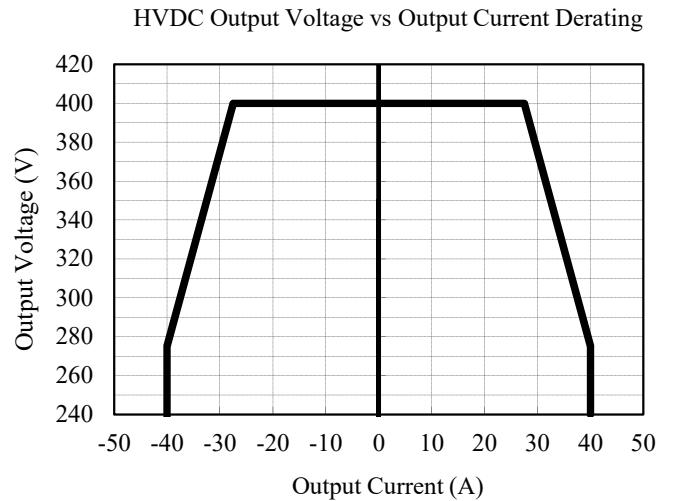


Fig. 2

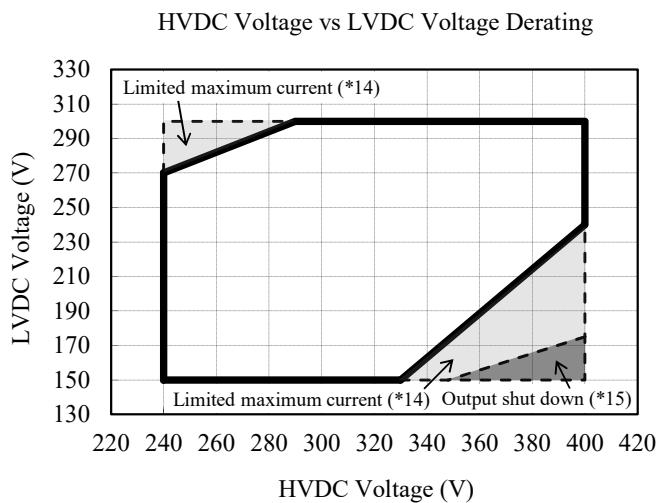


Fig. 3

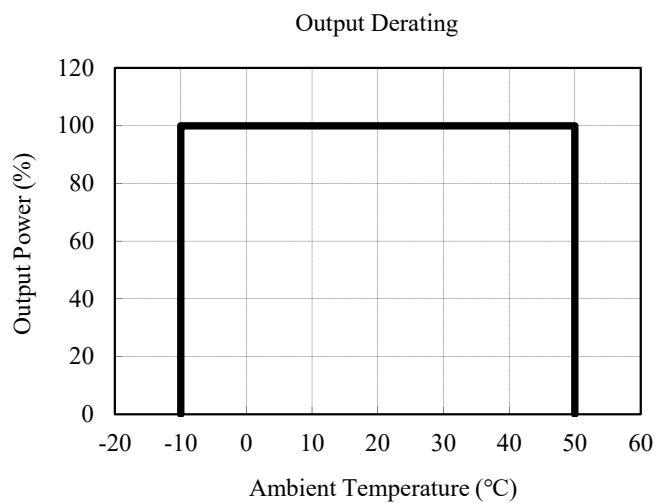


Fig. 4

Please read instruction manual Carefully, before using.

=Note=

*14. Limit maximum current by half (LVDC: 25.0A, HVDC: 20.0A).

*15. Output shut down.