

BATTERY CHARGER & AC UPS

·HIGH RELIABILITY

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·COMPLETELY AUTOMATIC FULL CHARGE TERMINATION

BATTERY CHARGER & AC UPS

ACM-1, BCC-24E/24F, UPC-1/3

GENERAL INFORMATION

The Battery charger controllers are high quality products combined with related functions and especially developed to be easily applied to marine system, power plant, steel, chemical plant and other places where the battery should be needed. They comply with various international standards, and standardized circuit is adopted. In addition to a basic functions, the controller has applicable functions, and control circuit consist of high quality components up to various standards.

The charger adopts a constant voltage and a constant current as a basic charging method.

And the termination of charging is defined by calculating a voltage differential coefficient(dV/dt) and a current differential coefficient(dl/dt) and adding a supplementary charging time.

[ACM-1®] controller has float and trickle charging.

It is possible to adjust Floating and Trickle voltage by using a VR.

It is possible to select the mode by using a trickle and floating mode botton.

[BCC-24E®] controller has float and equalize charging.

It is possible to adjust Floating and Equalizing voltage by using a VR.

Equalize charging time should be adjusted different according to the ambient temperature.

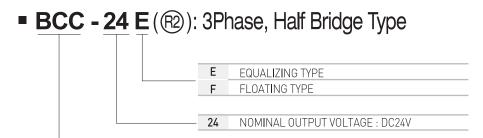
It is possible to select the mode by suing a equalize and float charging button.

[BCC-24F®] controller is only a float charging.

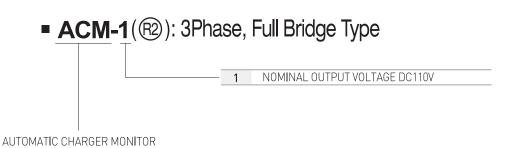
ORDERING INFORMATION

Control circuits are different from one another in their operation according to their systems.

The following are applicable models. Please select the applicable model according to the plan of the system and the specification on this operation manual.



BATTERY CHARGER CONTROLLER



BATTERYCHARGER

CONSTRUCTION AND ENVIRONMENT SPECIFICATIONS

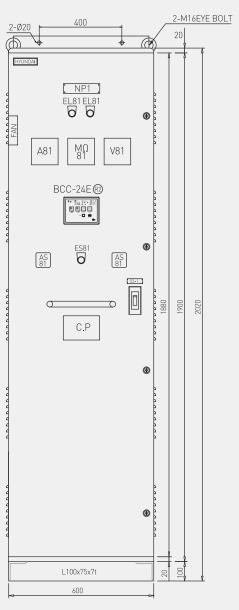
	MATERIAL		PC(Flame retardant) UL94 V-0 / TRIREX3025G10 / G / G (Reinforced)		
ENCLOSURE	DIELECTRIC STRENGTH		31KV/mm		
	COLOR		Black (maker standard)		
TEMPERATURE	AMBIENT TEMPERATURE		-20°C ~ +55°C		
TEMPERATURE /HUMIDITY	STORAGE TEMPERATURE		-20°C ~+85°C		
	HUMIDITY		45% ~ 85% R.H		
IP GRADE : FRONT SIDE PROTECTION	PUSH BUTTON WITH LAMP		IP 44		
	LED LAMP		IP 44		
EXTERNAL CONNECTION T.B	MATERIAL	INSUSATING MATERIAL	PBT		
		FLAMMABISITY CLASS	UL-94 V-0		
		CONTACT PIN	Cu		
	WIRE SIZE(max.)		2.5mm²		
	SPACING BETWEEN TERMINALS		5.0mm		
	TEMPERATURE RANGE		-40°C ~ +115°C		

FUNCTION

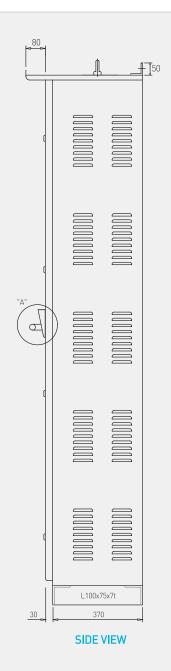
CONTROLLER MODEL	CONTROL SYSTEM	INDICATION & SIGNAL		
ACM-1 ®2	- LAMP TEST - FLOATING / TRICKLE MODE - DC VOLTAGE ADJUST - BUZZER STOP - ALARM RESET - DC OUTPUT CURRENT ADJUST	- SOURCE LAMP ALARM CONTROL SOURCE FAIL - RECTIFIER POWER FAILURE - CHARGER OVER VOLTAGE - LOW INSULATION - FAN FAIL - BATTERY DISCONNECTING - BATTERY UNDER VOLTAGE		
BCC-24E®2 / 24F®2	- LAMP TEST - FLOATING / EQUALIZING MODE (BCC-24E(3)) - DC VOLTAGE ADJUST - BUZZER STOP - ALARM RESET - DC OUTPUT CURRENT ADJUST	-SOURCE LAMP ALARM CONTROL SOURCE FAIL - RECTIFIER POWER FAILURE - CHARGER OVER VOLTAGE - LOW INSULATION - FAN FAIL - BATTERY DISCONNECTING - BATTERY UNDER VOLTAGE		

¹⁾ LAMP TEST: WHEN THIS BUTTON IS PRESSED, ALL LAMP WILL LIGHT UP. 2) ALARM RESET: WHEN THIS BUTTON IS PRESSED, ALARM WILL RESET.

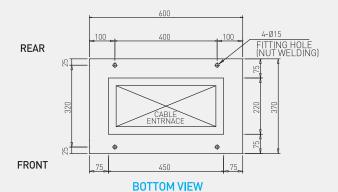
DINENSION (DC 24V CHARGER PANEL)



FRONT VIEW

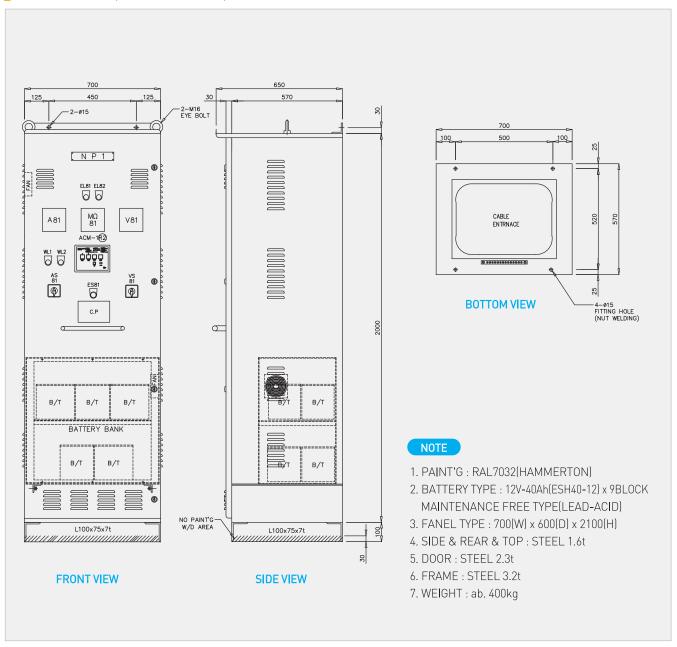


NOTE



- 1. PAINT'G : MUNSELL CODE. 7.5 BG 7/2
- 2. PANEL SIZE : $600(W) \times 400(D) \times 2000(H)$
- 3. SIDE & REAR & TOP : STEEL 1.6t
- 4. DOOR: STEEL 2.3t
- 5. FRAME: STEEL 3.2t
- 6. Q'TY: 1SET
- 7. WEIGHT: ab. 350kg
- 8. "A" : BRACKET HANDLE (ACRLONITRILE BUTADIENE STYRENNE)

DIMENSION (DC 110V CHARGER PANEL)



BCC-24E_F,ACM-1_BV







ACUPS

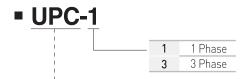
GENERAL INFORMATION

UPS is an electrical apparatus that provides emergency power to a load when the input power source, typically mains power, fails.

AC UPS differs from an auxiliary or emergency power system or standby generator in that it will provide near. instantaneous protection from input power interruptions, by supplying energy stored in batteries or a flywheel. UPS is typically used to protect computers, data centers, telecommunication equipment or other electrical equipment where an unexpected power disruption could cause injuries, fatalities, serious business disruption or data loss. UPS units range in size from units designed to protect a single computer without a video monitor (around 200 VA rating) to large units powering entire data centers or buildings.

ORDERING INFORMATION FOR CONTROLLER

Control circuits are different from one another in their operation according to their systems. The following are applicable models. Please select the applicable model according to the plan of the system and the specification on this operation manual.



UNINTERRUPTIBLE POWER SUPPLY CONTROLLER

ONSTRUCTION AND ENVIRONMENT

(20KV STANDARD)

				(ZUKV STANDARD)	
ENCLOSURE	FRONT : DOOR (HINGE) SIDE : TIGHTEN UP SCREW		REAR : TIGHTEN UP SCREW BOTTOM : OPEN		
PAINT COLOR	MAKER STANDARD		AMBIENT TEMP	45°C	
DRAWING & DOCUMENT	ENGLISH		MATERIAL OF NAME PLATE	PHENOLIC	
CHARGER METHOD	AUTO(0)	MANU ()			
SOURCE CAPACITY	CHARGER	AC 440 V 1Ø / 3Ø 60 Hz AC 220 V 1Ø / 3Ø 20 kVA		1 SET	
	BATTERY	DC 240V 100AH		1 SET	
	CONT. CIRC.	AC 440V	60Hz AC 220V		
NOTE	PLEASE BE CAREFUL AS THIS PRODUCT CAN VARY VOLTAGE OR CAPACITY ACCORDING TO USE'R REQUEST.				



PRODUCT SPECIFICATIONS

	Phase	1Ø		3Ø		
	Capacity	20KVA	30KVA	40KVA		
GENERAL	Operation mode	100% continuous				
	Rectifier & charger	Control	Thyristor phase control			
	recenter a charger	Semicon	I.G.B.T PWM			
INPUT	Input voltage	AC 220V	AC 380V	AC 440V		
	Voltage range	+10%, -10%				
	Input frequence range	50Hz / 60Hz ± 5%				
OUTPUT	Output voltage	220VAC				
	Output Over-load duration	120% 10Min				
	Output Wave Distortion(THD)	under 3%				
	Audible Noise		Within 60 dBA			
Fre	Frequency Range		±1 Hz			
Frequency change speed		1Hz/Sec				
crest factor of load	crest factor of load current on non-linear load		2.8 : 1			
Installation altitude		Working : under 2,000m above the sea level Keeping : under 12,000m above the sea level				
Installation temperature		Working: 0 ~ 45°C Keeping: -20 ~ 60°C				
Installation humidity		relative humidity 10~95% (NON-CONDENSING)				
	Max. voltage	DC 140V		DC 260V		
DC	Nominal voltage	DC 120V		DC 240V		
	End voltage	DC 100V		DC 210V		
	type	LEAD ACID TYPE				
BATTERY	capacity	12V				
	Installation	CABINET TYPE				

OUTLINE

