BPRB RANGE

FEATURES

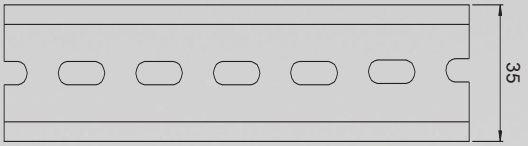
- **Protections: Short circuit/ Overload/ Over voltage/ Over temperature**
- **Boost mode (connector and wires provided)**
- **Cooling by free air convection**
- **Can be installed on DIN rail TS-35/7.5 or TS-35/15**
- **Fault relay contact**
- **100% full load burn-in test**
- **3 years warranty**

		BPRB 0524M	BPRB 1012M	BPRB 1024M	BPRB 2024M
OUTPUT	DC VOLTAGE	24 V	12V	24V	24V
	RATED CURRENT	5A	10A	10A	20A
	CURRENT RANGE	0 ~ 5A	0 ~ 10A	0 ~ 10A	0 ~ 20A
	RATED POWER	120 W	120 W	240 W	480 W
	RIPPLE NOISE (Max.)	120mVp-p	120mVp-p	300mVp-p	150mVp-p
	VOLTAGE ADJ. RANGE	24 ~29V (26.4V)	12 ~15V (13.2V)	24 ~28V (26.4V)	
	LINE REGULATION	(+/-) 0.5%			
	LOAD REGULATION	(+/-) 0.5%	(+/-) 0.5%	(+/-) 1.0%	(+/-) 1.0%
	SETUP, RISE TIME	2000ms, 70ms, 50ms/400V_{AC} 2000ms, 70ms, 10ms/230V_{AC} *at full load*	2000ms, 70ms, 50ms/400V_{AC} 2000ms, 70ms, 10ms/230V_{AC} *at full load*	800ms, 150ms/400V_{AC} 1500ms, 150ms/230V_{AC} *at full load*	800ms, 150ms/400V_{AC} 2000ms, 150ms/230V_{AC} *at full load*
	HOLD UP TIME (Typ.)	50ms / 400V_{AC} 10ms / 230V_{AC} *at full load*		18ms / 400V_{AC} 18ms / 230V_{AC} *at full load*	18ms / 400V_{AC} 16ms / 230V_{AC} *at full load*
	INFORMATION	Please adjust output voltage required with the potentiometer according to the battery charger			
INPUT	VOLTAGE RANGE	180 ~ 550V_{AC} 254 ~ 780V_{DC}		180 ~ 550V_{AC} 254 ~ 780V_{DC}	
	FREQUENCY RANGE	47 ~ 63Hz			
	EFFICIENCY (Typ.)	91% / 400V	89.5% / 400V	91%	92%
	AC CURRENT (Typ.)	0.55A/400V_{AC} 1.2A/230V_{AC}		1A/400V_{AC} 2A/230V_{AC}	1.6A/400V_{AC} 4A/230V_{AC}
	INRUSH CURRENT (Typ.)	Cold start 50A			
	LEAKAGE CURRENT	<3.5mA / 530V_{AC}			
PROTECTION	OVERLOAD *(Rated output power)*	105 ~ 130%		105 ~ 150%	105 ~ 130%
		Protection type: constant current limiting with auto-recovery after fault condition is removed			
	OVER VOLTAGE	31 ~ 37V	16 ~ 18V	31 ~ 38V	
		Protection type : shut down o/p voltage, re-power on to recover			
	OVER TEMPERATURE	110°C (+/-)5°C (TSW1)	105°C (+/-)5°C (TSW1)	90°C (+/-)5°C (TSW)	95°C (+/-)5°C (TSW)
		Protection type : shut down o/p voltage, recovers automatically after temperature goes down			
FUNCTION	**FAULT RELAY CONTACT** **(***Relay contact rating(max.)*	30V / 1A resistive load			
		Contact open = NO FAULT / Contact closed = FAULT			
	BOOST MODE	Contact closed = boost mode Boost voltage =+4% above floating voltage			
ENVIRONMENT	**WORKING TEMPERATURE**	(-)25 ~ (+)70°C *(Refer to output load derating curve)*		(-)30 ~ (+)70°C *(Refer to output load derating curve)*	
	WORKING HUMIDITY	20 ~ 90% RH non condensing		20 ~ 95% RH non condensing	
	STORAGE TEMP, HUMIDITY	(-)40 ~ (+)85°C, 10 ~ 95% RH			
	TEMP. COEFFICIENT	(+/-)0.03%/°C (0 ~ 50°C)			
	VIBRATION	Component: 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes ; Mounting : Compliance with IEC60068-2-6			
SAFETY & EMC	WITHSTAND VOLTAGE	I/P-O/P:3KV_{AC} I/P-FG:1.5KV_{AC} O/P-FG:0.5KV_{AC} O/P-DC OK:0.5KV_{AC}			
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:100M Ohm / 500V_{DC} / 25°C / 70% RH			
	EMI CONDUCTION & RADIATION	Compliance with EN55011 (CISPR11), EN55022 (CISPR22), EN61204-3 Class B			
	EMT IMMUNITY	Compliance with EN61000-4-2,3,4,5,6,8,11, ENV50204, EN61204-3, EN61000-6-2 (EN50082-2), heavy industry level, criteria A			
OTHERS	MTBF	268Khrs min MIL-HDBK-217F (25°C)	268Khrs min MIL-HDBK-217F (25°C)	141.1K hrs min. MIL-HDBK-217F (25°C)	112.8K hrs min. MIL-HDBK-217F (25°C)
	DIMENSION (W x H x D)	40 x 125.2 x 113.5mm		63 x 125.2 x 113.5mm	85.5 x 125.2 x 128.5mm
	PACKING	0.65Kg		1.06Kg	1.7Kg
NOTES	All parameters NOT specially mentioned are measured at 400V_{AC} input, rated load and 25°C of ambient temperature.				
	Ripple & noise are measured at 20MHz of bandwidth by using a 12'' twisted pair wire terminated with a 0.1 uf & 47 uf parallel capacitor.				
	The battery chargers is considered a component which will be installed into final equipment. The final equipment must be re-confirmed that it still meets EMC directives.				
	Installation clearances: 40mm on top, 20mm on bottom, 5mm on the left and right side are recommended when loaded permanently with full power. In case the adjacent device is a heat source, 15mm clearance is recommended.				
	Derating may be needed under low input voltage. Please check the derating curve for more details.				

battery chargers product information

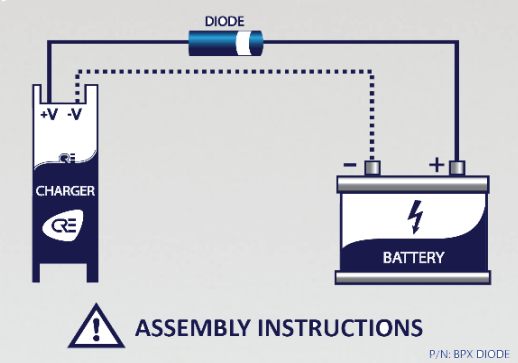
BPRB RANGE

MECHANICAL SPECIFICATIONS

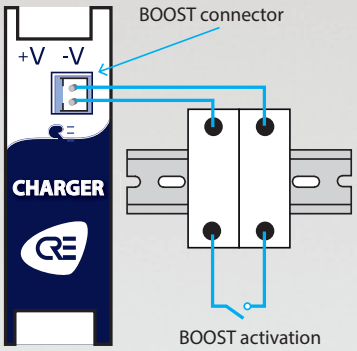


ADMISSIBLE DIN-RAIL:TS35/7.5 OR TS35/15

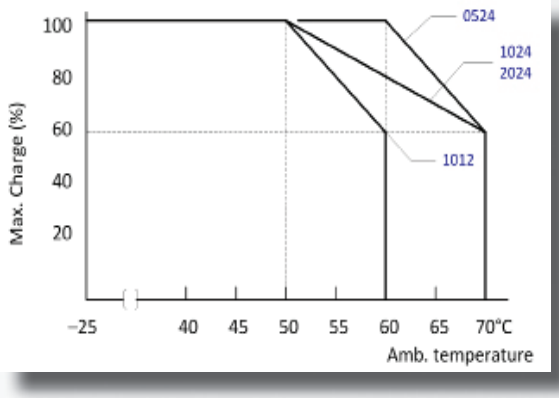
BP DIODE KIT PROVIDED WITH CHARGER



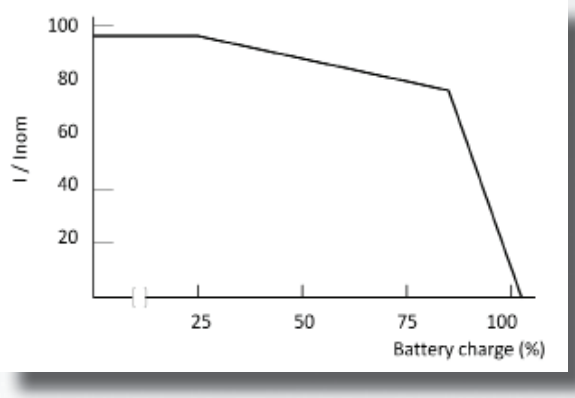
BOOST CONNECTION



DERATING CURVE



BATTERY CHARGE CURVE



battery chargers
product information

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