COMPACT RANGE

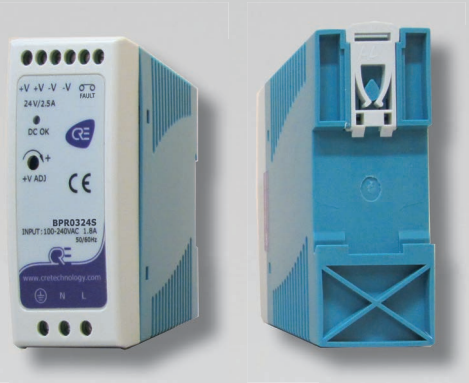
FEATURES

- **Protections: Short circuit/ Overload/ Over voltage**
- **LED indicator for power on**
- **Cooling by free air convection**
- **Can be installed on DIN rail TS-35/7.5 or TS-35/15**
- **FAULT contact**
- **No load power consumption <0.75W**
- **100% full load burn-in test**
- **3 years warranty**

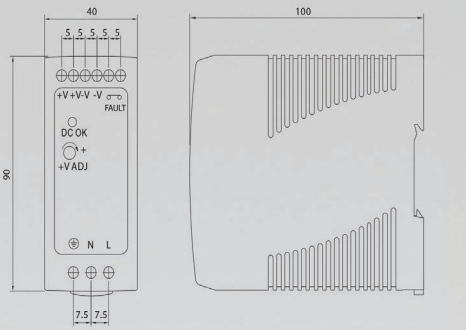
		BPR 0324S	BPR 0512S
OUTPUT	DC VOLTAGE	24 V	12V
	RATED CURRENT	2.5A	5A
	CURRENT RANGE	0 ~ 2.5A	0 ~ 5A
	RATED POWER	60 W	60 W
	RIPPLE NOISE (Max.)	150mVp-p	120mVp-p
	VOLTAGE ADJ. RANGE	24 ~30V (26.4V)	12 ~15V (13.2V)
	LINE REGULATION	(+/-) 1%	
	LOAD REGULATION	(+/-) 1%	
	SETUP, RISE TIME	500ms, 30ms/230V_{AC} 500ms, 30ms/115V_{AC} at full load	
	HOLD UP TIME (Typ.)	50ms/230V_{AC} 20ms/115V_{AC} at full load	
	INFORMATION	Please adjust output voltage required with the potentiometer according to the battery charger	
INPUT	VOLTAGE RANGE	85 ~ 264V_{AC} 120 ~ 370V_{DC}	
	FREQUENCY RANGE	47 ~ 63Hz	
	EFFICIENCY (Typ.)	88%	86%
	AC CURRENT (Typ.)	1.8A/115V_{AC} 1A/230V_{AC}	
	INRUSH CURRENT (Typ.)	Cold start 30A/115V_{AC} 60A/230V_{AC}	
	LEAKAGE CURRENT	<1mA / 240V_{AC}	
PROTECTION	OVERLOAD *(Rated output power)*	105 ~ 150% rated output power	
		Protection type: constant current limiting with auto-recovery after fault condition is removed	
	OVER VOLTAGE	31.2 - 36V	15.6 - 18V
		Protection type : shut down o/p voltage, re-power on to recover	
	OVER TEMPERATURE		
		Protection type : shut down o/p voltage, recovers automatically after temperature goes down	
FUNCTION	**FAULT RELAY CONTACT** (*Relay contact rating(max.)*	30V/1A resistive	
		Contact open = NO FAULT / Contact closed = FAULT	
ENVIRONMENT	**WORKING TEMPERATURE**	(-)25 ~ (+)70°C *(Refer to output load derating curve)*	
	WORKING HUMIDITY	20 ~ 90% 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	299.2Khrs min MIL-HDBK-217F (25°C)	
	DIMENSION (W x H x D)	40 x 90 x 100mm	
	PACKING	0.33Kg	
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

COMPACT RANGE

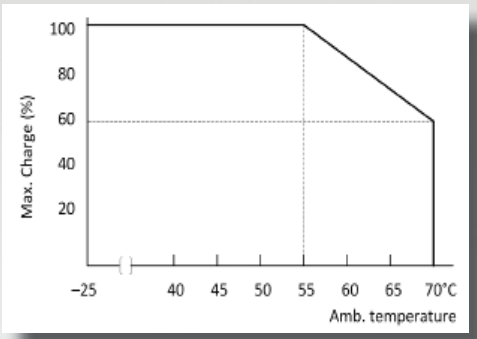


MECHANICAL SPECIFICATIONS

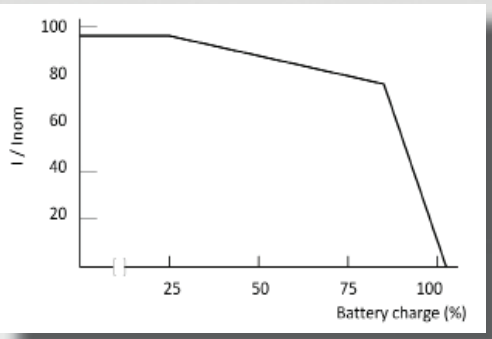


Install DIN rail TS35/7.5 or TS35/15

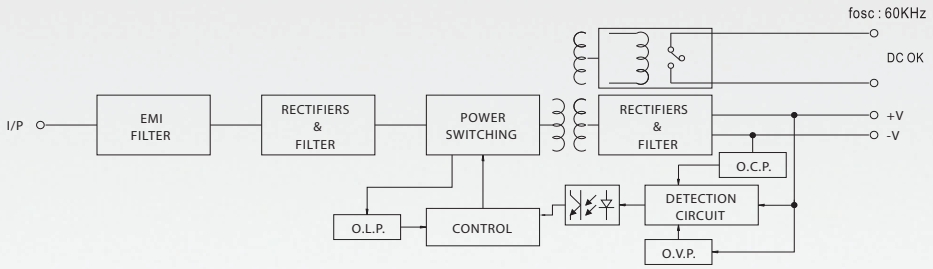
DERATING CURVE



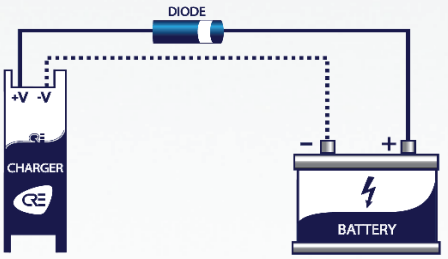
OUTPUT DERATING vs INPUT VOLTAGE (V_{AC})



BLOCK DIAGRAM



BP DIODE KIT PROVIDED WITH CHARGER



ASSEMBLY INSTRUCTIONS

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product information battery chargers