AC → DC SWITCHING POWER SUPPLY

BACKUP SERIES

All the patents are held accountable counterfeiting.

Features

- Power Ready Signal
- Redundant function
- Din Rail/ Screw Mounting Dual Purpose
- Workable for both power supply/ DC Backup System
- Fan speed control(PCB damp proof process)
- 100% full load burn-in test
- 110,000Hrs MTBF per MIL-HDBK-217F
- 2-year warranty
- Output modify range: 3V~200VDC
- Split rail & Series connection possible

E159228 E159228

Detail specifications

12 Volt Battery Backup System

MODEL		1045D-12FT-C	1072D-12FT-C	1120D-12MT-C	1120D-12CT-C	1200D-12MT-C	1200D-12CT-C	1240D-12CT-C	1500D-12CT-C	11K0D-12T-C
OUTPUT	DC VOLTAGE	13.8 VDC								
	RIPPLE & NOISE(max)*	120 mV								
	LINE REG.*	+/- 1%								
	LOAD REG.*	13.2~13.9 VDC								
	HOLD-UP TIME	16 ms/ 110VAC								
	RATED CURRENT	2.93A	4.68A	7.83A	7.83A	13.05A	13.05A	15.66A	32.61A	65.22A
	CHARGING CURRENT	2.93A	4.68A	7.83A	7.83A	13.05A	13.05A	15.66A	32.61A	65.22A
INPUT	FREQUENCY RANGE	47 ~ 63 Hz								
	INRUSH CURRENT(max)	20A/110VAC, 40A/ 220VAC								
	VOLTAGE RANGE	90~264VAC 127~380VAC	90~264VAC 127~380VAC	110/220VAC 220~380VAC	90~264VAC 127~380VAC	110/220VAC 220~380VAC	90~264VAC 127~380VAC	90~264VAC 127~380VAC	90~264VAC 127~380VAC	180~264VAC 220~380VAC
	AC CURRENT(max)	1.0A	2.0A	5.0A	5.0A	5.0A	5.0A	5.0A	8.0A	15.0A
	Efficiency (Typ.)*	70%	73%	78%	73%	78%	77%	77%	78%	82%
	PFC (min)	------	------	------	95%	------	95%	95%	95%	------
PROTEC -TION	OVERLOAD	95~105% Rated Output Power (Automatic Power Limited)								
	SHORT	Autorecovey								
	OVER VOLTAGE	17.1~18.9VDC	14.4~16.5VDC	15~18VDC	15~18VDC	15~18VDC	15~18VDC	15~18VDC	15~18VDC	15~18VDC
	COOLING	Convention	Convention	Convention	Convenion	Fan	Fan	Convention	Fan	Fan

24 Volt Battery Backup System

MODEL		1045D-24FT-C	1072D-24FT-C	1120D-24MT-C	1120D-24CT-C	1200D-24MT-C	1200D-24CT-C	1240D-24CT-C	1500D-24CT-C	11K0D-24T-C
OUTPUT	DC VOLTAGE	27.6 VDC								
	RIPPLE & NOISE(max)*	240 mV								
	LINE REG.*	+/- 1%								
	LOAD REG.*	27~27.7 VDC								
	HOLD-UP TIME	16 ms/ 110VAC								
	RATED CURRENT	1.49A	2.34A	3.92A	3.92A	6.53A	6.53A	7.83A	16.29A	32.61A
	CHARGING CURRENT	1.49A	2.34A	3.92A	3.92A	6.53A	6.53A	7.83A	16.29A	32.61A
INPUT	FREQUENCY RANGE	47 ~ 63 Hz								
	INRUSH CURRENT(max)	20A/110VAC, 40A/ 220VAC								
	VOLTAGE RANGE	90~264VAC 127~380VAC	90~264VAC 127~380VAC	110/220VAC 220~380VAC	90~264VAC 127~380VAC	110/220VAC 220~380VAC	90~264VAC 127~380VAC	90~264VAC 127~380VAC	90~264VAC 127~380VAC	180~264VAC 220~380VAC
	AC CURRENT(max)	1.0A	2.0A	5.0A	5.0A	5.0A	5.0A	5.0A	8.0A	15.0A
	Efficiency (Typ.)*	75%	75%	80%	75%	80%	79%	80%	80%	83 %
	PFC (min)	------	------	------	95%	------	95%	95%	95%	------
PROTEC -TION	OVERLOAD	95~105% Rated Output Power (Automatic Power Limited)								
	SHORT	Autorecovey								
	OVER VOLTAGE	31.4~38.3VDC	31.4~38.3VDC	31.4~38.3VDC	30~36VDC	30~36VDC	30~36VDC	30~36VDC	30~36VDC	30~36VDC
	COOLING	Convention	Convention	Convention	Convenion	Fan	Fan	Convention	Fan	Fan

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BACKUP SERIES

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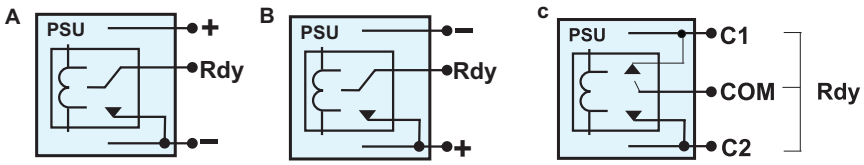
48 Volt Battery Backup System

MODEL		1045D-48FT-C	1072D-48FT-C	1120D-48MT-C	1120D-48CT-C	1200D-48MT-C	1200D-48CT-C	1240D-48CT-C	1500D-48CT-C	11K0D-48T-C
OUTPUT	DC VOLTAGE	55.2 VDC								
	RIPPLE & NOISE(max)*	400 mV								
	LINE REG.*	+/- 1%								
	LOAD REG.*	54.6~55.3 VDC								
	HOLD-UP TIME	16 ms/ 110VAC								
	RATED CURRENT	0.74A	1.17A	1.95A	1.95A	3.26A	3.26A	3.92A	8.15A	16.30A
	CHARGING CURRENT	0.74A	1.17A	1.95A	1.95A	3.26A	3.26A	3.92A	8.15A	16.30A
INPUT	FREQUENCY RANGE	47 ~ 63 Hz								
	INRUSH CURRENT(max)	20A/110VAC, 40A/ 220VAC								
	VOLTAGE RANGE	90~264VAC 127~380VAC	90~264VAC 127~380VAC	110/220VAC 220~380VAC	90~264VAC 127~380VAC	110/220VAC 220~380VAC	90~264VAC 127~380VAC	90~264VAC 127~380VAC	90~264VAC 127~380VAC	180~264VAC 220~380VAC
	AC CURRENT(max)	1.0A	2.0A	5.0A	5.0A	5.0A	5.0A	5.0A	8.0A	15.0A
	Efficiency (Typ.)*	77%	75%	78%	76%	80%	80%	80%	82%	83%
	PFC (min)	------	------	------	95%	------	95%	95%	95%	------
PROTEC -TION	OVERLOAD	95~105% Rated Output Power (Automatic Power Limited)								
	SHORT	Autorecovey								
	OVER VOLTAGE	56.7~65.2VDC	56.7~65.2VDC	56~61VDC	56~61VDC	56~61VDC	56~61VDC	56~61VDC	56~61VDC	56~61VDC
	COOLING	Convention	Convention	Convention	Convenion	Fan	Fan	Convention	Fan	Fan

Rdy Connection



A: Rdy Internal Connection of T Type Terminal Black
B: Rdy Internal Connection of E Type Terminal Black
C: Rdy Internal Connection of 500 watts Terminal Black only
(Isolation between the RDY connection Signal and the primary/ secondary side)

Part Number Rule

Please Choose Fit Function,
And Fill In The Blank With Suitable Words.

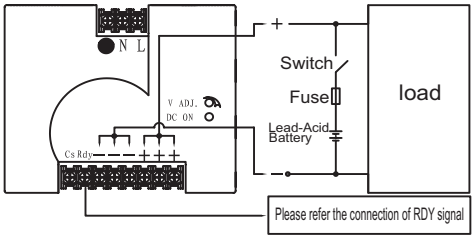
Order Model:RP1500D-24C ☐ - C

Optional Function:

Terminal Block: **"T"** : PCB Barrier Terminal Block
"E" : Mini Terminal Block

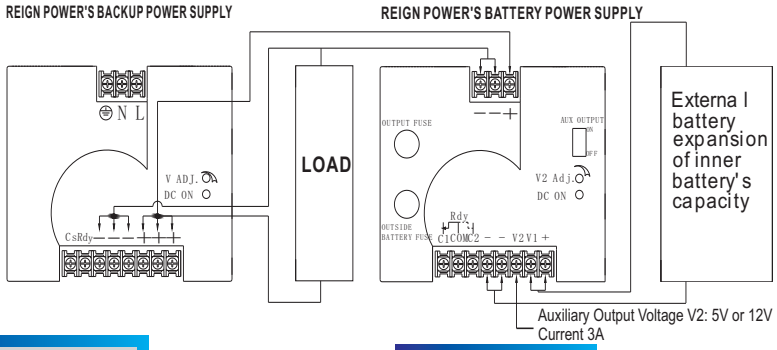
Connection (1)

BACK-UP POWER SUPPLY



Notice. Charging current spec must over load current.

Connection (2)



EMC Standards

EN55022 CLASS A, EN50082-1
En55024, EN61000-3-2 CLASS A,
EN61000-3-3, EN6100-4-2,
EN6100-4-3, EN61000-4-4,
EN61000-4-5,EN61000-4-6,
EN61000-4-11
LVD IEC 60950 EN60950

Notice:RP1072D, RP1120D-xxM and RP1200D-xxM series can not meet the rule of EN61000-3-2

Safety Standards

UL 60950 Approval

CSA 60950 Approval

CE Marking

Environments

Operating Temperature	-15 ~ 50°C, Ambient
Operating Humidity	5 ~ 95% RH, No Condensing
Storage Temperature	-20 ~ 85°C, Ambient
Vibration	2G, 10~500Hz, 3 axes

NOTE:

1. Each output can provide up to maximum load, but total load can not exceed rated output power.
2. Line regulation is measured from low line to high line at rated load.
3. Load regulation is measured from 20% to 100% of rated load at 110VAC input. (Redundant function Sepc. 0.6V Add.)
4. Ripple & Noise is measured by using a 0.1uF/630V metalized capacitor & a 47uF electrolytic capacitor parallel on the test point, at rated load and 110VAC input.
5. Efficiency is measured at rated load and 110VAC input.
6. Hold-up time is measured at rated load and 110VAC input.
7. Reign Power reserve the right to change specifications at any time without notice.

WEB : http://www.switching-powers.com
E-mail : rp21003f@ms7.hinet.net
Tel : 886-2-22997550
Fax : 886-2-22997596
REIGNPOWER S.M.P.S