

致尊敬的顾客

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瑞萨电子公司网址：<http://www.renesas.com>

2010年4月1日
瑞萨电子公司

【发行】瑞萨电子公司（<http://www.renesas.com>）

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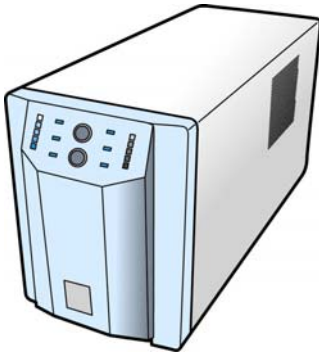
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Applications

UPS（不间断供电电源）

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概要

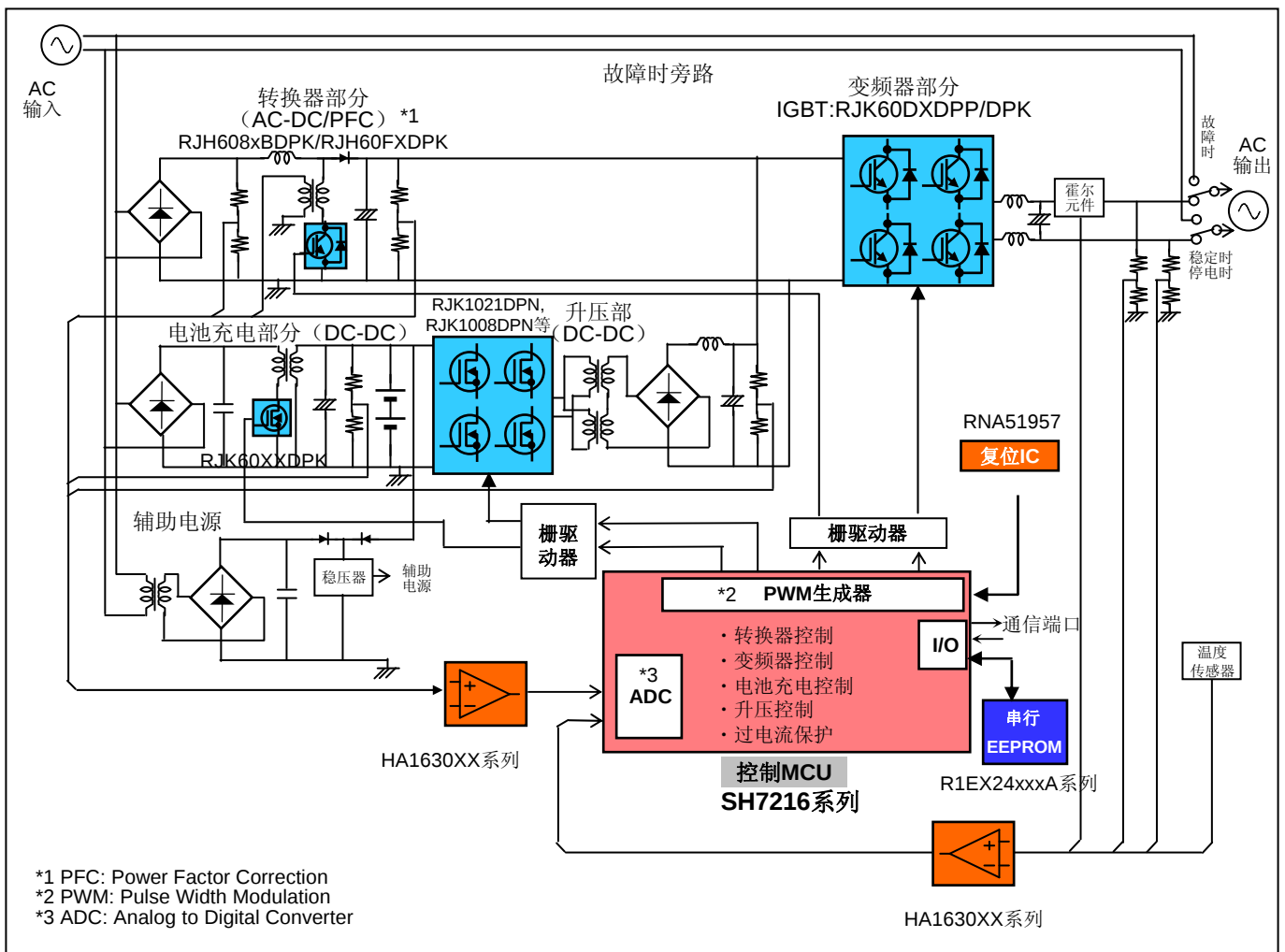
UPS（不间断供电电源）是为了通过IT基础设施来实现泛网社会所必需的，且被特别要求具有可靠性的装置。

无论是在线式UPS、后备式UPS，瑞萨都提供可全数字控制的能构成最佳系统的MCU和高效率的功率半导体器件（IGBT、MOSFET）。全数字控制的好处是，通过MCU全权控制功率变化，与模拟方式相比，不仅减少元件数所带来的成本下降，又可以提高控制的稳定性。

作为UPS用MCU，是一款内置了多个变频器/转换器用PWM控制的高速处理控制MCU，有最适合在线式UPS的SH/Tiny系列、M16C/Tiny系列，以及最适合后备式UPS的R8C族及各类半导体器件，提供面向UPS的最佳解决方案。

系统框图

2009年10月最新信息



所推荐的瑞萨元件

2009年10月最新信息

Block	半导体	推荐产品名	特点等
控制部分	MCU	SH Tiny 系列	最适合在线式UPS。 三相PWM定时器、5V工作、A/D强化
	MCU	M16C Tiny 系列	
	MCU	R8C族	最适合后备式UPS。 定时器、5V工作、小型封装
	EEPROM	R1EX24xxxA 系列 R1EX25xxxA 系列	PC总线接口。 最适合电源故障发生时的记录
转换器部分 (PFC)	IGBT	RJH608xBDPK*/RJH60FxDPK	最适合有源滤波器方式、高速开关
	IGBT	RJP60D0DPM*	最适合部分开关方式、 低VCE(sat)、绝缘外观 开发中
降压部分	MOSFET	RJK60xxDPK	低导通电阻，高速开关
升压部分	MOSFET	RJK1021DPN, RJK1008DPN等	低导通电阻，高速开关
变频器部分	IGBT	RJH60DxDPP/DPK	内置高负载电路、低VCE(sat)、内置FRD
电源等	齐纳二极管	RKZxxXG, HZMxxxNB, HZ/HZSxx	最适合用于高ESD时的电涌吸收
	开关二极管	1S2076, 1SS119, HSU119, HSC119, HSM2838C, HSM123	
	肖特基势垒二极管	RKR104BKH, HRV103B, HSM88AS等	最适合用于低IR时的电路保护
	运算放大器	HA1630系列	
MCU外围	复位IC	RNA51957	检测电压可变

*: 开发中

相关应用手册/样品代码

名称	文档编号
功率MOS FET应用手册	RJJ05G0003-0900Z

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