

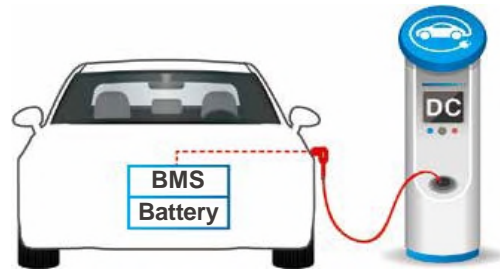
Solutions for EV Charging System

PANJIT FRED series are specifically designed for EV charging system. It has low QRR with soft recovery characteristics, which can effectively reduce switching losses while suppress EMI. Its' ultra-low leakage current would result in high robustness in harsh operating conditions.

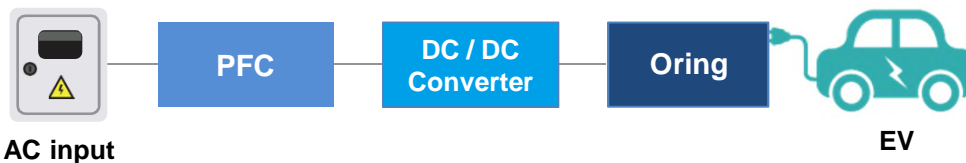


► FRED Product Features

- Best trade-off on V_F & Q_{RR}
- Low switching losses
- Soft recovery characteristic
- Low leakage current



► EV Charging System Block Diagram



► Recommended Devices

Circuit	Product Type	Product ID	V_{RRM}	I_F	Typ. $V_F@I_F$	Package
PFC	FRED 1000V	PSDH30100S1	1000V	30A	2.65V	TO-247AD-2LD
	FRED 1200V	PSDH30120S1	1200V	30A	3.0V	
		PSDH60120S1	1200V	60A	2.7V	
DC / DC Converter	FRED 600V	PSDH3060S1	600V	30A	1.8V	
		PSDH6060S1	600V	60A	1.8V	
	FRED 1000V	PSDH30100S1	1000V	30A	2.65V	
	FRED 1200V	PSDH30120S1	1200V	30A	3.0V	
		PSDH60120S1	1200V	60A	2.7V	
Oring	Bridge Rectifier	GBJ3510*	1000V	35A	1.1V	
		GBJ5010*	1000V	50A	1.1V	
		GBJ3506ULV *	1000V	35A	0.76V	

*Under Development