

On-board Charger

Hybrid and electric vehicles need a highly-efficient on-board AC/DC charger, while OBC should provide the requirements of high power density and fit into limited space and weight. For these requirements, PANJIT provides wide range, high efficiency, and automotive grade product portfolio for automotive on-board charger applications.



Product Features

Rectifier

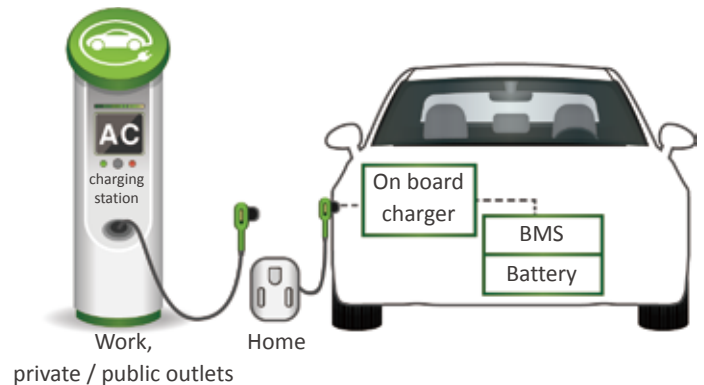
- Ultra-low conduction losses.
- High forward surge.
- Input rectification of on-board charger.

SiC Schottky

- Low conduction and switching loss.
- High surge current capability.
- Fast reverse recovery.

TVS

- Low leakage current.
- Low clamping voltage.
- High surge current capability.



On-board Charger Module Block Diagram



Recommended Devices

Application-AU	Type	Part Number	Rating	Package	
Bridge	Rectifier	GP3012P-AU*	30A/1200V	TO-247AD 2L	
PFC	SiC Schottky	SiC10A065T-AU	10A/650V	TO-220AC	
		SiC20A065CP-AU*	20A/650V	TO-3P-3L	
DC/DC	TVS	P2ALxxA-AU	12-15V/200W	SOD-123FL	
		FRED	QRT3006-AU*	30A/600V	TO-220AC
			QRTxx06P-AU*	30-60A/600V	TO-247AD 2L

* In development.