

GMC.igbt

Green Mobility Chargers for E-Bus

Charger

Borri's IGBT opportunity chargers allow the charging of electric bus fleets while at bus stops or turnaround points. Borri GMC.igbt offers clean, efficient powerful charging results in ultra-short charging times and keeps your electric bus running all day. Short charging sessions allow no scheduled disruptions to bus routes, optimizing operations and uptime. Borri GMC.igbt is a highly efficient and cost-effective solution to meet future implementation.

The system is fully scalable and with a protection degree up to IP 54 enclosure for indoor or outdoor installations. Borri's 85 years of experience in industrial chargers and UPSs guarantee the highest reliability keeping your fleets' battery charged at all times. Chargers can be connected to CCS-plug or to pantographs.



Industrial Power

Applications

- Electric bus opportunity charging.
- Electric bus overnight charging.

Main features

- IGBT technology for clean efficient power.
- High efficiency >98% with sleep mode.
- Low THDi <3%.
- Input PF >0.99.
- Ultra-fast charging.
- Short charging sessions allow no scheduled disruption.
- Fully scalable system.
- Event history.
- Connectivity.
- Easy to maintain.



BORRI[®]

GMC.igbt technical data

Rating (kW)	150	300	600
Rated DC output current (A)	300	600	1000
Dimensions WxDxH (mm)	1000x800x2100	1200x800x2100	1400x800x2100
Weight (kg)	750	1050	1650

Input

Connection type	Hardwired 3w + PE
Nominal voltage	380/400/415 Vac 3-phase
Voltage tolerance	-20%, +15%
Frequency	50/60 Hz \pm 5 Hz
Power factor	> 0.99
Current distortion (THDi)	< 3%

Output

Output DC voltage range	460 to 900 Vdc
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System and environmental

Cooling	Forced ventilation (redundant fans optional)
Efficiency	Up to 98%
Colour	RAL 7035 (other colours on request)
Protection degree	IP 20 for indoor installation / IP 54 for outdoor installation
Operating temperature	-20° to +40° C (optional temperature +50° C)
Storage temperature	-20 °C to +70 °C
Altitude	< 1000m without power reduction, > 1000m with reduction of 0.5% x 100m
Options	Many options for customization available

User interface

Front panel	LCD display (touch screen as optional)
Connectivity	SPDT contact relay card, RS232 Optional: ModBus-RTU (RS485), ModBus-TCP/IP (Ethernet), GPRS/3G modem, ModBus to PROFIBUS DP adapter, remote monitoring software

Standards

	CE -Label Safety: IEC EN 55011 EMC: IEC EN 61000-6-2
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Who we are

Borri Group is a global provider of power electronics systems and solutions for harsh industrial and demanding commercial and ICT secure power requirements merging over eighty years of experience in developing, manufacturing and supplying uninterrupted power systems and solutions. Thanks to our highly skilled custom engineers Borri controls in-house the entire process: from feed studies to design, production and after-sales service meeting your requirements.