



INDIE POWER SYSTEMS

A SINGLE SOURCE SOLUTION FOR ENERGY MANAGEMENT

**INCLUDING: ENERGY STORAGE, VEHICLE CHARGING,
DEMAND CHARGE REDUCTION & OTHER MICROGRID SOLUTIONS**



Complete Systems

- **Energy Management Software**
 - Optimization logic, UI, and Comms
- **Power Electronics Hardware**
 - 350V to 900V DC
 - DC-DC
 - Battery Charge Controllers
 - PV with MPPT
 - AC Input (rectified) with PFC
 - Inverters
 - 2 or 3 phase 208 or 480 AC
 - Independent Phase Management
- **Battery Energy Storage**
 - Battery Agnostic
 - New and/or secondary-use batteries





EV Chargers

- **Advantages**

- Levels 2 & 3
 - Modular to meet Amperage target
- More efficient
- Lower cost

- **Energy Storage Enabled**

- Battery Energy Storage optional

- **Alternative Energy Enabled**

- Solar capable
- Any other energy input
 - From wind to fuel cell



Home
Charger



Home Charger
With Storage



Commercial
Charger
Storage Optional



GaN Switch Advantage

- **GaN is more efficient**

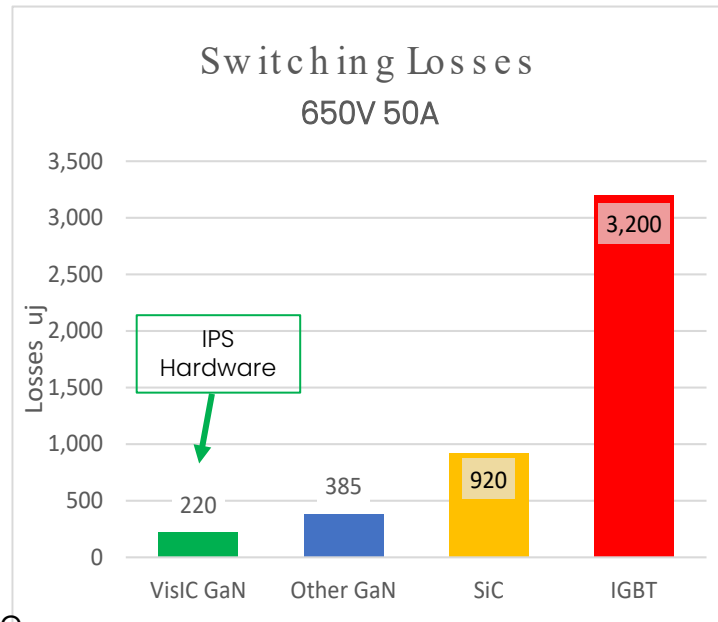
- IPS VisiC GaN (Gallium Nitride)
 - 75% better than other GaN
 - 4 X better than SiC (Silicon Carbide)
 - 14 X better than IGBTs

- **Reduced size**

- Higher frequency (100kHz) = reduced size
 - Smaller magnetics and capacitors
 - 10kW modular unit the footprint of iPhone

- **Lower overall cost**

- Complete system on a single board
 - Manufacture on an automated circuit board line



Source: VisiC



Sales Channels

- **Value Added Resellers and System Integrators**
 - We manufacture modular, scalable, upgradable platforms
- **Battery Manufacturers**
 - Value Add (plus Storage)
 - BMS
 - Integrate OEM BMS
 - IPS develop custom BMS
- **Vehicle OEMs**
 - Secondary-Use strategies enabled
 - IPS pioneered the integration of secondary-use batteries
 - Stationary storage channel for battery factory

Contact



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