

MPQ4280

- **Highly Integrated Solution**
 - Full bridge + current-sensing + 36V buck converter
- **Integrated Full Bridge**
 - Wide 1V to 26V input voltage range, up to 40V transient
 - Low 21mΩ on resistance with 4 N-channel MOSFETS
 - Delivers high current of up to 15A
 - Flexible frequency selection: 100kHz to 2MHz
- **High-Accuracy Current-Sense Amplifier**
 - Wide common mode voltage range: 1V to 26V
 - Low offset voltage: ±35μV
 - Low gain error: 1%

MPQ4262

- **High-Power, Integrated Solution**
 - 100W buck-boost converter with 2 integrated low-side MOSFETs
 - Integrated gate drive for high-side MOSFETs
 - High-accuracy current-sense amplifier
 - 98% peak current, 5A output current
 - 3.6V to 36V input voltage range
- **Provides Flexibility**
 - Configurable features
 - Selectable switching frequency
 - Selectable forced PWM mode or auto-PFM/PWM mode
- **Fault Protections**
 - CC current limiting, OVP, and thermal shutdown

MPQ4242

- **All-in-One Integrated Solution**
 - USB PD solution for 45W and 60W
 - 4-switch buck-boost converter
 - PD 3.0 controller with PPS
 - Supports up to 5A of output current
 - 4.8V to 36V input voltage range
 - Effective power-sharing logic for dual PD ports
- **Fault Protections**
 - CC current limiting, OVP, OCP, thermal shutdown

MPF52000

- **Dual-Channel USB PD Controller for Sourcing**
 - PD3.1 with PPS, Type-C 2.1
 - Power-sharing function
 - Integrated V_{CONN} power switch and OCP
 - 128KB flash, 12KB SRAM, and 4KB ROM
 - 12-bit analog-to-digital converter
 - Watchdog timer
- **Protection Features**
 - High-voltage CCx/DP/DM I/O protection
 - Short-to-battery/VBus protection
 - Thermal shutdown

Applications



Automotive Wireless Chargers



USB PD Charging



USB/PD Hubs

Contact

Visit our webpage: monolithicpower.com/products/power-management.html