

120W USB Board

FEATURES

- Fully Compatible with USB-Type C and USB PD Specifications and Regulations
- Each Source Only Port Supports USB PD 3.0 (PPS):
 - 5V/9V/15V/20V at 3A
 - 3.3V to 16V at 3A
 - 3.3V to 21V at 3A
- DP/DM Pin Supports BC1.2 DCP, Apple Divider Mode, QC3.0, and AFC
- Selectable Switching Frequency: 250kHz, 350kHz, or 420kHz
- Optional Short-to-Battery Protection on DM, DP, CC Lines, or USB GNDs
- Optional Power-Sharing between Two Ports
- Optional V_{CONN} Support Up to 1.5W
- Optional V_{IN} Monitoring
- Input Voltage Reverse-Polarity Protection
- AEC-Q100 Grade Compliant

ORDERING INFORMATION

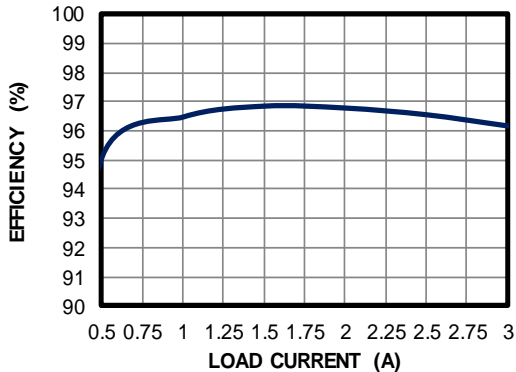
Part Number
mEzS91603A ⁽¹⁾

Note:

1) For IC and bill of materials (BOM) information, contact MPS.

Efficiency

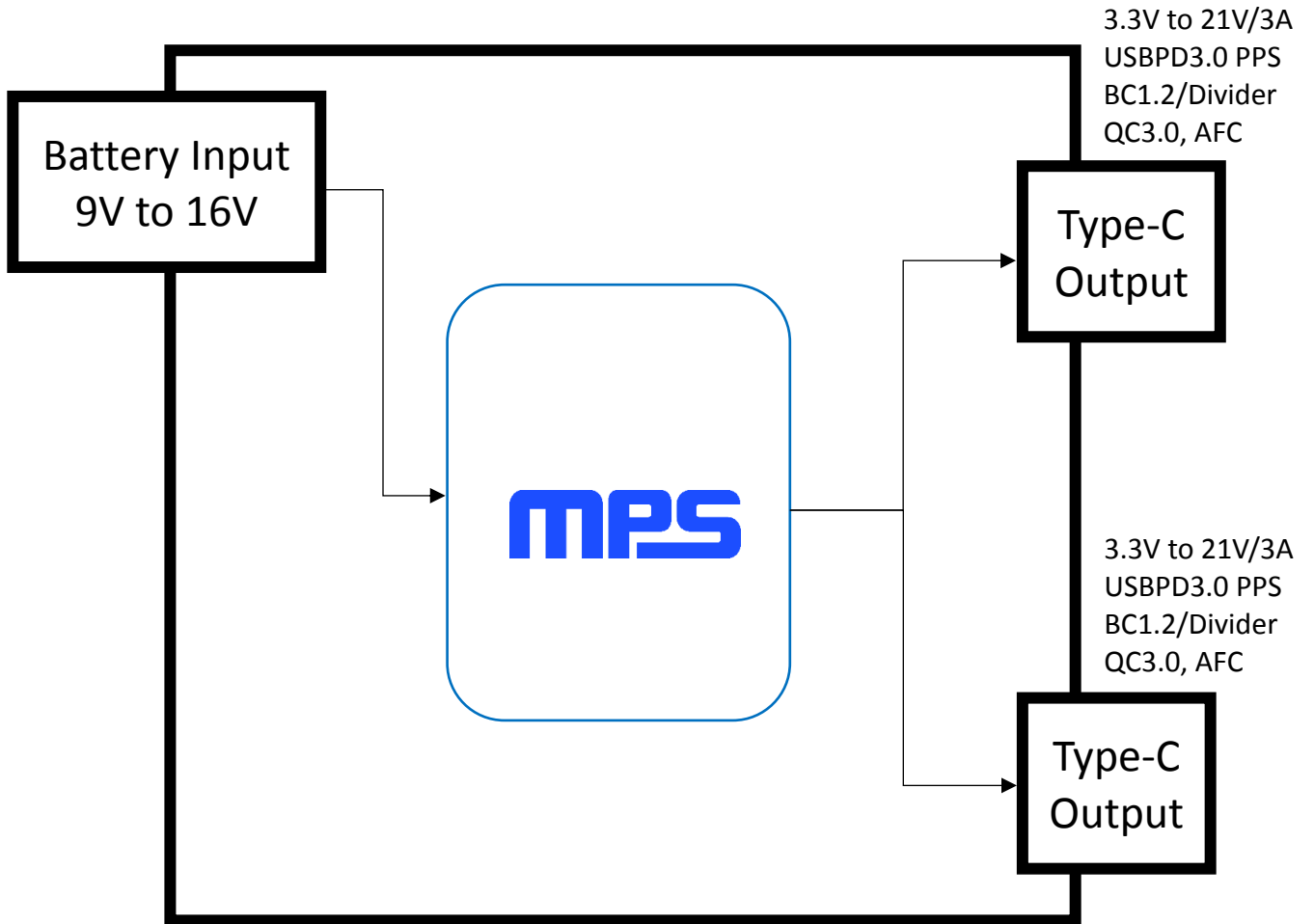
$V_{IN} = 12V$, $V_{OUT1} = V_{OUT2} = 20V$, load on both channels



ELECTRICAL CHARACTERISTICS

Input Voltage	9V to 16V	
PDO List	V_{OUT} (V)	I_{OUT} (A)
1	5	3
2	9	3
3	15	3
4	20	3
5	3.3 to 16	3
6	3.3 to 21	3

SYSTEM BLOCK DIAGRAM



PIN DIAGRAM

