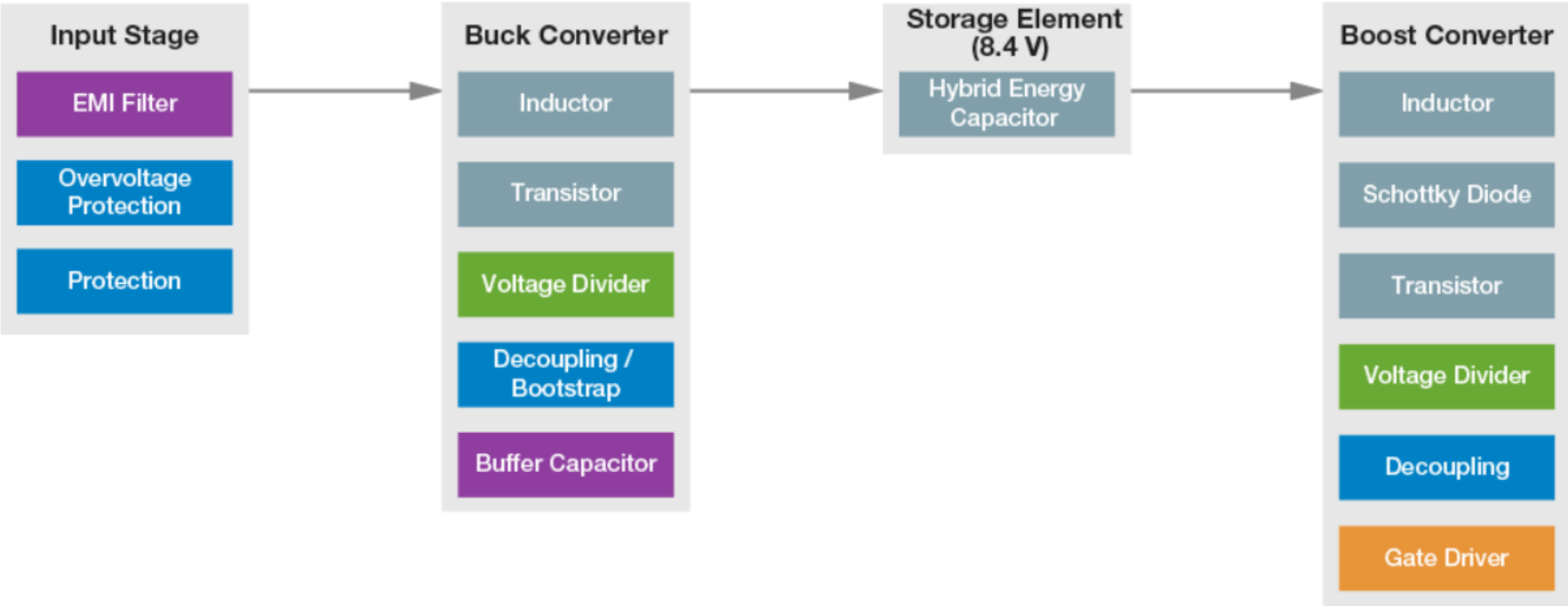


Low Voltage UPS - Block Diagram



Low Voltage UPS - Parts

INPUT STAGE - EMI FILTER

INDUCTOR

Product Name	Status	Description	Features	Package	Q-Level
IHLP1616		IHLP Inductor SMD Best Saturation Behaviour	DCR down to 5mOhm	SMD	

MLCC

Product Name	Status	Description	Features	Package	Q-Level
VJ0603Y		Tantalum Nitrite Resistor Film SMD High frequency applications	C = 0.5 pF ... 100 µF v	ra	

INPUT STAGE - OVERVOLTAGE PROTECTION

TVS DIODE

Product Name	Status	Description	Features	Package	Q-Level
VTVS		TransZorb Transient Voltage Suppressor SMD SMF-Package	VWM= 5V...63V PPPM=400W	S	

INPUT STAGE - REVERSE POLARITY PROTECTION

SCHOTTKY DIODE

Product Name	Status	Description	Features	Package	Q-Level
SS5P4		Schottky Barrier Rectifier High Current Density	VRRM = 40 V IF = 5 A	SMD TO-277A	

Low Voltage UPS - Parts

BUCK CONVERTER - INDUCTOR

IHLE

Product Name	Status	Description	Features	Package	Q-Level
IHLE2525CD		IHLE Inductor SMD Best Saturation Behaviour	DCR down to 71mOhm(10uh) Integrated E-Shield for Max EMI Reduction	S	

BUCK CONVERTER - TRANSISTOR

TRENCHFET® GEN IV MOS

Product Name	Status	Description	Features	Package	Q-Level
SISA18ADN		N-Channel 30V (DS) MOSFET SMD PowerPAK® 1212-8S	38.3A RDS(on) = 0.0075 Ω	SMD PowerPAK® 1212-8	

BUCK CONVERTER - VOLTAGE DIVIDER

RCC

Product Name	Status	Description	Features	Package	Q-Level
RCC0603		Lead- Free Thick Film Resistor SMD High pulse performance		S	

BUCK CONVERTER - DECOUPLING/ BOOTSTRAP

MLCC

Product Name	Status	Description	Features	Package	Q-Level
VJ0603Y		Multilayer Ceramic Chip Capacitor SMD High frequency applications	C = 0.5 pF ... 100 µF V= 10V... 100V	SMD	

BUCK CONVERTER - BUFFER CAPACITOR

MLCC

Product Name	Status	Description	Features	Package	Q-Level
VJ1210		Multilayer Ceramic Chip Capacitor SMD High frequency applications	C = 0.5 pF ... 100 µF V= 10V... 100V	SMD	

Low Voltage UPS - Parts

STORAGE ELEMENT - ENERGY CAPACITOR

HVC196

Product Name	Status	Description	Features	Package	Q-Level
MAL219690108E3		Hybrid Energy Capacitor High Rated Voltage(8.4V) High Energy density	C=90F No cell balancing necessary Low Leakage Current = 0.5mA	Through Hole 35 x 25 x 20.0	

BOOST CONVERTER - INDUCTOR

IHLE

Product Name	Status	Description	Features	Package	Q-Level
IHLE4040DD		IHLE Inductor SMD Best Saturation Behaviour	DCR down to 33mOhm Integrated E-Shield for Max EMI Reduction	s	

BOOST CONVERTER - SCHOTTKY DIODE

SCHOTTKY DIODE

Product Name	Status	Description	Features	Package	Q-Level
SS5P4		Schottky Barrier Rectifier High Current Density	VRRM = 40 V IF = 5 A	SMD TO-277A	a

BOOST CONVERTER - TRANSISTOR

TRENCHFET N-MOS

Product Name	Status	Description	Features	Package	Q-Level
SiA468DJ		N-Channel 30V (DS) MOSFET SMD PowerPAKSC-70-6L	37.8A RDS(on) = 0.0084 Ω	SMD PowerPAK SC-70-6L	

Low Voltage UPS - Parts

BOOST CONVERTER - VOLTAGE DIVIDER

RCC

Product Name	Status	Description	Features	Package	Q-Level
RCC0603		Lead- Free Thick Film Resistor SMD High pulse performance		s	

BOOST CONVERTER - DECOUPLING/ BOOTSTRAP

MLCC

Product Name	Status	Description	Features	Package	Q-Level
VJ0603Y		Multilayer Ceramic Chip Capacitor SMD High frequency applications	C = 0.5 pF ... 100 µF V= 10V... 100V	r	

BOOST CONVERTER - GATER DRIVER

GATE RESISTOR

Product Name	Status	Description	Features	Package	Q-Level
RCC0603		Lead- Free Thick Film Resistor SMD High pulse performance		s	

SWITCHING DIODE

Product Name	Status	Description	Features	Package	Q-Level
1N4148W		Small Signal Fast Switching Diode SMD	VR = 75V	SMD s	a