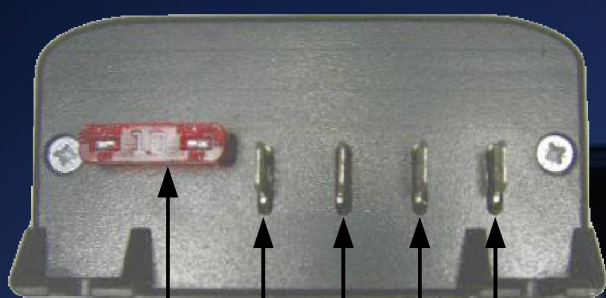


# Standard Series DC to DC Converter

*Reliable and economical  
DC-DC converters for  
cost sensitive  
applications*

Technical Specifications and Ordering Information															
Part number	HMPS3S3636	HMPS3S5050	HMPS3S9090	HMPS3S1212	HMPS3S1313	HMPS7S3636	HMPS7S5050	HMPS7S9090	HMPS7S1212	HMPS7S1313	HMPS10S3636	HMPS10S5050	HMPS10S9090	HMPS10S1212	HMPS10S1313
Continuous output current (A)	3					7					10				
Nominal output voltage (V)	3.6	5.0	9.0	12.0	13.8	3.6	5.0	9.0	12.0	13.8	3.6	5.0	9.0	12.0	13.8
Maximum output - no load (V)	3.7	5.1	9.1	12.1	13.9	3.7	5.1	9.1	12.1	13.9	3.7	5.1	9.1	12.1	13.9
Minimum output - full load (V)	3.5	4.9	8.9	11.9	13.7	3.5	4.9	8.9	11.9	13.7	3.5	4.9	8.9	11.9	13.7
Minimum input voltage (V)	9.0	9.0	12.0	16.0	17.0	9.0	9.0	12.0	16.0	17.0	9.0	9.0	12.0	16.0	17.0
Efficiency (%)	89	88	87	86	85	91	90	89	88	88	86	85	84	83	83
RMS ripple voltage (mV)	17	35	70	83	96	18	37	72	85	96	19	38	74	86	97
Maximum input voltage (V)	36					36					36				
Fuse rating (A)	3					7					10				
Peak current (A)	15					15					15				
Case temp rise °C	17 (30 minutes at 3A)					22.5 (30 minutes at 7A)					28.5 (30 minutes at 10A)				
Physical size (mm)	67(l), 76(w), 37(h)					67(l), 76(w), 37(h)					90(l), 76(w), 37(h)				

## Electrical Connections



Blade Fuse

Input Voltage (+)

Input Voltage (-)

Output Voltage (-)

Output Voltage (+)



Standard automotive crimp-type push-on connectors (6.3mm spade connector)