



3.5KWDC/DC Converter Module

Model No. ATD3K5-640S14-M



Specification

Description	Minimum	Typical	Maximum	Unit	Remark
1. Input characteristics					
Input voltage range	400	-	950	Vdc	
2. Output characteristics					
Output voltage range	9	14	16	Vdc	
Rated output current	-	250	-	A	
Peak output current	-	300	-	A	
Output power	-	3500	-	W	
DC- weighted conversion efficiency	92	-	-	%	Rated input, load> 30% weighted efficiency, peak efficiency
3. Protection characteristics					
Input overvoltage protection point	960	960	960	Vdc	Turn off the output,
Input overvoltage recovery point	945	945	945	Vdc	Hysteresis $\geq 5VDC$
Input undervoltage protection point	395	395	395	Vdc	Turn off output
Input undervoltage recovery point	400	400	400	Vdc	Hysteresis $\geq 5VDC$



Output overvoltage protection point		16		Vdc	
Output undervoltage protection point		8		Vdc	
Overtemperature protection	100		109	°C	The MCU temperature derating range is 100~109. The MOS tube temperature derating range is 115~124. Compare the difference between the MCU temperature and the MOS tube temperature and the starting derating value, and the one with the larger difference will be derated; the MOS tube will shut down at 125°C.
	115		124	°C	
Output overcurrent protection	>300			A	Software output is adjustable, this value is the hardware current limit value
Communication fault protection	have			-	If the charger does not receive BMS instructions for 5 consecutive seconds, or a communication failure occurs during operation, the charger will shut down the output.