SPS Selection Worksheet (1/2)

Project/Board:			Rail Name:	Farget Vout:	Ambient (C):
Step 1 - Load & phases					
I_out (A)	N_phases	I_phase (A)	F_sw (kHz)		

Notes

## Step 2 - Loss/thermal quick calc

Vin (V)

Target eff (%)

Rds_on HS (m0hm)  Rds_on LS (m0hm)		Qg (nC)		Theta_JA (C/W)		Theta_JC (C/W)	
Est. comd. loss (W)	Est. sw. loss (W)		Case temp (C)		Heatsink/airflow		

Freq window (kHz)

Step 3 - Pin-compatible candidates (3 picks)

art Number	Package	PWM level	Polarity	Compat controller	Pros/Tradeoffs	Pick?

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Step	4 - Final checks
	Footprint matches (pad, exposed pad, pin 1
	PWM level and tri-state match controller
	IMON/TSENSE pinout and scaling verified
	UVLO/OC/OT thresholds within range
	Thermal via array and copper area OK
	Inductor placement and SW keep-out
	Efficiency grid 3x3 measured
	Sourcing plan: main + backup