

Model	EVR400-3500
Input Parameters	
Rated Input Voltage	220VAC / 220VDC 110VAC / 110VDC (half load)
Input Voltage Range	176VAC ~ 300VAC (full load) 85VAC ~ 176VAC (derating)
Max. Input Current	< 25A
Input Frequency Range	45Hz ~ 65Hz
Power Factor (PF)	≥ 0.99
Total Harmonic Current Distortion (THDi)	≤ 5%
Input Start-up Voltage	≥ 85VAC or 85VDC
Input Sampling Accuracy	± 5V (AC or DC)
Input Over-voltage & Under-voltage Protection	AC Input: Shut down > 300VAC, auto-recover < 285VAC Shut down < 80VAC, auto-recover > 95VAC Accuracy: ± 5VAC DC Input: Shut down > 420VDC, auto-recover < 405VDC Shut down < 80VDC, auto-recover > 95VDC Accuracy: ± 5VDC
Input Protection	Fuse; Surge Protection Circuit (SPD)
Output Parameters	
Rated Output Power	3.5 kW
Rated Output Current	9 A
Output Voltage Range	200VDC ~ 420VDC

Adjustable Current Limiting Range	10% ~ 110% Stepless Adjustable
Peak-to-Peak Ripple & Noise	$\leq \pm 0.5\%$
Voltage Regulation Accuracy	$\leq \pm 0.5\%$
Current Regulation Accuracy	$\leq \pm 1\%$
Current Sharing Unbalance	$\leq \pm 5\%$
Efficiency	$\geq 93\%$ @ 100% Load; $\geq 93.5\%$ @ 50% Load
Short Circuit Protection	Output current limiting, auto-recover after fault is cleared
Over-current Protection	Internal over-current shutdown, auto-recover after is cleared
Over-voltage Protection	Auto-latch after shutdown. Re-power on or reset the module to recover after is cleared
Operating Environment	
Operating Temperature Range	-40°C ~ 45°C (normal operation)
	45°C ~ 75°C (derating output)
Storage Temperature Range	-40°C ~ 75°C
Relative Humidity	0 ~ 95% RH (non-condensing)
Altitude	$\leq 2000\text{m}$ (full load output)
Physical Characteristics	
Dimensions (W×H×D)	125×41×303mm
Net Weight	2 kg
Communication & Paralleling	
Communication Interface	CAN
Safety & Reliability	
Dielectric Strength / Isolation Voltage	Input to Enclosure (Chassis): 3535VDC / 50Hz, 1 min Input to Output: 4242VDC / 50Hz, 1 min
MTBF	> 120,000 Hours