

Model	EVR100-3500
Input Parameter	
Rated Input Voltage	220 Vac / 220 Vdc; 110 Vac / 110 Vdc (Half Load)
Input Voltage Range	AC: 176 ~ 300 Vac (Full Load); 85 ~ 176 Vac (Derating) DC: 176 ~ 400 Vdc (Full Load); 85 ~ 176 Vdc (Derating)
Input Current	< 25 A
Frequency	45 Hz ~ 65 Hz
Power Factor (PF)	≥ 0.99
THDi	≤ 5%
Input Start-up Voltage	≥ 85 Vac or 85 Vdc
Input Sampling Accuracy	±5 Vac or Vdc
Input Over/Under Voltage	AC Input: Shutdown > 300 Vac, Resume < 285 Vac; Shutdown < 80 Vac, Resume > 95 Vac; Accuracy ±5 Vac DC Input: Shutdown > 420 Vdc, Resume < 405 Vdc; Shutdown < 80 Vdc, Resume > 95 Vdc; Accuracy ±5 Vdc
Input Protection	Fuse; Surge Protection Circuit (SPD)
Output Parameter	
Rated Output Power	3.5 kW
Rated Output Current	35 A
Output Voltage Range	30 ~ 100 Vdc
Adjustable Current Limiting Range	10% ~ 120%
Peak-to-Peak Ripple & Noise	≤ ± 0.5%
Voltage Stabilized Accuracy	≤ ± 0.5%

Current Regulation Accuracy	$\leq \pm 1.0\%$
Current Sharing Error	$\leq \pm 5.0\%$
Efficiency	92.5% / 93.0%
Short Circuit	Enters output current limiting mode; automatically resumes after fault is cleared
Over Current	Module internal over-current shutdown; automatically resumes after fault is cleared
Over Voltage	Automatic shutdown and lockout; re-power or reset the module after fault is cleared
Operating Environment	
Operating Temperature Range	-40 °C ~ 45 °C (Normal Operation); 45 °C ~ 75 °C (Linear Derating Output)
Storage Temperature Range	-40 °C ~ 75 °C
Relative Humidity	0 ~ 95% RH (Non-condensing)
Altitude	2000m (Full Load Output)
Physical Characteristics	
Dimension (W × H × D)	125 × 41 × 303 mm
Net Weight	2 kg
Communication & Control	
Communication Interface	CAN Bus
Max. Paralleling Quantity	60 Units
Safety & Reliability	
Dielectric Strength	Input-Chassis: 2500 Vac / 50Hz (or 3535 Vdc), 1 min;
	Input-Output: 3000 Vac / 50Hz (or 4242 Vdc), 1 min
MTBF	> 120,000 Hours