

Model	EVR1000-30000A(E)	EVR1000-40000(E)	EVR1000-40000A(B)
Input Parameters			
Connection Type	U/V/W+PE	3-Phase, U/V/W+PE	3-Phase, U/V/W+PE
Rated Input Voltage	400 Vac / 480 Vac	3-Phase, 380 Vac / 480 Vac	3-Phase, 380 Vac / 480 Vac
Input Voltage Range	260 ~ 530 Vac	320 ~ 530 Vac (full load)	320 ~ 530 Vac (full load)
Low-Voltage Operating Range	—	260 ~ 320 Vac (linear derating to half)	260 ~ 320 Vac (linear derating to half)
Input Frequency	50 Hz / 60 Hz	45 Hz ~ 65 Hz	45 Hz ~ 65 Hz
Rated Power	30 kW	—	—
Input Current	≤ 63 A	≤ 76 A	≤ 76 A
Power Factor (PF)	≥ 0.99 (Maximum value)	≥ 0.99	≥ 0.99
THDi	≤ 5%	≤ 5%	≤ 5%
Max. Efficiency	≥ 96.5%	≥ 96.0% (full load), ≥ 96.5% (peak)	≥ 96.0% (full load), ≥ 96.5% (peak)
Input Protection	—	Fuse + Surge Protection Circuit (SPD)	Fuse + Surge Protection Circuit (SPD)
Output Parameters			
System Power	30 kW	40 kW	40 kW
Rated Output	—	1000 V @ 40 A	1000 V @ 40 A
Output Voltage Range	150 ~ 1000 Vdc	150 ~ 1000 Vdc	150 ~ 1000 Vdc
Constant Power Range	—	300 ~ 1000 Vdc (40 kW)	300 ~ 1000 Vdc (40 kW)
Output Current Range	≤ 120 A	0 ~ 133.4 A (T ≤ 60°C)	0 ~ 133.4 A (T ≤ 60°C)
Output Current Accuracy	≤ ± 1.0%	≤ ± 1.0%	≤ ± 1.0%
Output Voltage Accuracy	≤ ± 0.5%	≤ ± 0.5%	≤ ± 0.5%
Peak-To-Peak Ripple & Noise	—	≤ 1.0%	≤ 1.0%
Current Sharing Error	—	≤ ± 5.0%	≤ ± 5.0%
Operating Environment			
Operating Temperature Range	-40°C ~ +60°C (w/o derating) Stop operation at 75°C	-40°C ~ +60°C (normal operation)	-40°C ~ +60°C (normal operation)
High Temperature Derating	—	60°C ~ 75°C	60°C ~ 75°C
Storage temperature	—	-40°C ~ +75°C	-40°C ~ +75°C
Humidity	0 ~ 95% RH (non-condensing)	0 ~ 95% RH (non-condensing)	0 ~ 95% RH (non-condensing)

Atmospheric pressure/ Altitude	≤ 2000 m	≤ 2000 m (full load output)	≤ 2000 m (full load output)
Physical Characteristics			
Dimensions (w/o Handle)	370×542.5×73 mm	370×542.5×73 mm	370×543×73 mm
Dimensions (with Handle)	—	410×637.7×73 mm	410×592.5×73 mm
Degree of Protection	IP50	—	—
Cooling method	Liquid cooling	Liquid cooling	Liquid cooling
Coolant	50% glycol-water	Glycol-water mixture (52.7% by	Glycol-water mixture (52.7% by
Flow Rate	6 ~ 12 L/min	6 ~ 12 L/min	6 ~ 12 L/min
Max. Pressure Drop	0.5 MPa	0.5 MPa	0.5 MPa
Weight	27 kg	Approx. 27 kg	Approx. 27 kg
Communication & Control			
Communication	CAN 2.0	CAN Bus	CAN Bus
Max. Paralleling Quantity	—	60 Units	60 Units
User Interface & Status Monitoring	Run / Fault / Protection LEDs	CAN communication + 3 LED indicators + 2 push-buttons	CAN communication + 3 LED indicators + 2 push-buttons
Protection Function	—	Anti-backfeed diode failure isolation protection + Output discharge function	Anti-backfeed diode failure isolation protection + Output discharge function
Input circuit protection	Built-in SPD, Fuse, Varistor	—	—
Output circuit protection	External fuse	—	—
Safety & Reliability			
Dielectric Strength (Power Stage)	—	Input-Chassis / Output-Chassis / Input-Output: 3535 VDC, 1 min	Input-Chassis / Output-Chassis / Input-Output: 3535 VDC, 1 min
Dielectric Strength (Signal)	—	Input-COM / Output-COM: 5750 VDC, 1 min	Input-COM / Output-COM: 5750 VDC, 1 min
Dielectric Strength (Enclosure)	—	COM-Chassis: 1400 VDC, 1 min	COM-Chassis: 1400 VDC, 1 min
MTBF	—	> 120,000 Hours	> 120,000 Hours
Standards & Certifications			
Certification	CE	—	—
Safety Standard	—	IEC 61851-1:2023 / GB 39752-2024	IEC 61851-1:2023 / GB 39752-2024