

Model	EVC500-7500	EVC1000-20000B	EVC1000-30000C
<b>Input Parameters</b>			
Input Type	DC/DC	DC/DC	DC/DC
Rated Input Voltage	400 Vdc / 600 Vdc	250 ~ 850 Vdc (Over-voltage shutdown $\geq$ 860 Vdc)	—
Input Voltage Range	400 ~ 800 Vdc (full load); 200 ~ 400 Vdc (Linear Derating)	550 ~ 850 Vdc (full load); 250 ~ 550 Vdc (Linear Derating)	550 ~ 950 Vdc (full load); 350 ~ 550 Vdc (Linear Derating)
Input Current	< 20 A	< 40 A	< 60 A
Input Protection	Fuse; Surge Protection Circuit (SPD)	Fuse; Surge Protection Circuit (SPD)	Fuse; Surge Protection Circuit (SPD)
<b>Output Parameters</b>			
Rated Output Power	7.5 kW	20 kW (250 ~ 1000 Vdc Constant Power)	30 kW
Output Rated Value	—	—	1000 V @ 30 A
Rated Output Current	15 A	73 A	—
Output Voltage Range	200 ~ 500 Vdc	200 ~ 1000 Vdc	200 ~ 1000 Vdc
Constant Power Range	—	250 ~ 1000 Vdc	300 ~ 1000 Vdc
Output Current Range	—	—	0 ~ 100 A (T $\leq$ 55°C)
Adjustable Current Limiting Range	10% ~ 110% Stepless Adjustable	10% ~ 110% Stepless Adjustable	—
Peak-to-Peak Ripple & Noise	$\leq \pm 0.5\%$	$\leq \pm 0.5\%$	$\leq 1.0\%$
Voltage Stabilized Accuracy	$\leq \pm 0.5\%$	$\leq \pm 0.5\%$	$\leq \pm 0.5\%$
Current Regulation Accuracy	$\leq \pm 1.0\%$	$\leq \pm 1.0\%$	$\leq \pm 1.0\%$
Current Sharing Error	$\leq \pm 5.0\%$	< 5.0%	$\leq \pm 5.0\%$
Efficiency	$\geq 95.0\%$	$\geq 95.0\%$ (peak)	$\geq 96.5\%$ (peak)
<b>Operating Environment</b>			
Operating Temperature Range	-40°C ~ 50°C (normal operation); 50°C ~ 75°C (linear derating output)	-40°C ~ 55°C (normal operation); 55°C ~ 75°C (linear derating output)	-40°C ~ 55°C (normal operation); 55°C ~ 75°C (linear derating output)
Storage Temperature Range	-40°C ~ 75°C	-40°C ~ 75°C	-40°C ~ 75°C
Relative Humidity	0~95%RH (non-condensing)	0~95%RH (non-condensing)	0~95%RH (non-condensing)
Altitude	2000m (full load output)	Below 2000m (full load output)	2000m (full load output)

<b>Physical Characteristics</b>			
Dimensions (W×H×D)	240×85×398 mm	218×84×461.2 mm(without handle)	248×84×461.2 mm(without handle)
Net Weight	Approx. 8 kg	Approx. 10 kg	Approx. 15 kg
<b>Communication &amp; Control</b>			
Communication Interface	CAN Bus	CAN Bus	CAN Bus
Max. Paralleling Quantity	60 Units	60 Units	60 Units
Alarm & Status Monitoring	Alarms and status uploaded via CAN Bus;	Alarms and status uploaded via CAN Bus;	CAN communication for status reporting;
<b>Protection &amp; Function</b>			
Anti-backfeed Diode Failure Isolation	Supported	Supported	Supported
Output Discharge Function	—	Supported (Discharge to < 48 Vdc)	Supported
Output Positive/Negative Fuse Protection	Supported	—	—
<b>Safety &amp; Reliability</b>			
Dielectric Strength	Input-Chassis: 2500 Vac / 50Hz (or 3535 Vdc), 1 min; Input-Output: 3000 Vac / 50Hz (or 4242 Vdc), 1 min	Input-Output, Input-CAN: 4242 Vdc, 1 min; Input-Chassis, Output-Chassis, Output-CAN: 3500 Vdc, 1 min; CAN-Chassis: 1400 Vdc, 1 min	Input-Chassis, Output-Chassis, Input-Output: 3535 Vdc, 1 min; Input-COM, Output-COM: 4300 Vdc, 1 min; COM-Chassis: 1400 Vdc, 1 min
MTBF	> 120,000 Hours	> 120,000 Hours	> 120,000 Hours
<b>Standards &amp; Certifications</b>			
Safety Standard	—	—	Compliant with IEC 61851