

Heavy Truck, Marine, & RV

Powering the Next Generation of e-Mobility



CALEX

Bi-Directional DC-DC Converters

Low Voltage Bi-Directional Converters

- e-Mobility 12V/24V/48V battery systems
- Low Side (LS): 12V input voltage range: 6V to 18V
- High Side (HS): 48V input voltage range: 24V to 58V
- CAN 2.0B interface including remote ON/OFF
- Efficiency up to 97%

Series	Power	High Side (VDC)	Low Side (VDC)	Cooling
	(W)	Nom	Nom	
48S12.3K0BCA	3,000	48	12	Conduction
48S24.3K0BCA	3,000	48	24	Conduction

Series	Power	High Side (VDC)	Low Side (VDC)	Cooling
	(W)	Nom	Nom	
48S12.1K5BCA	1,500	48	12	Conduction

Series	Power	High Side (VDC)	Low Side (VDC)	Cooling
	(W)	Nom	Nom	
48S12.750BCE	750	48	12	Conduction

Series	Power	High Side (VDC)	Low Side (VDC)	IP Rating	Cooling
	(W)	Nom	Nom		
48S12.215BCE-A	3,000	48	12	IP67	Air
48S12.215BCE-L	3,000	48	12	IP67	Liquid
48S24.107BCE-A	3,000	48	24	IP67	Air
48S24.107BCE-L	3,000	48	24	IP67	Liquid
24S12.215BCE-A	3,000	24	12	IP67	Air
24S12.215BCE-L	3,000	24	12	IP67	Liquid



High Voltage Bi-Directional Converters

- Wide High-Side input voltage range: 220V to 450Vdc
- Adjustable 12Vdc or 24Vdc output voltage, supporting 12/24V battery applications
- Remote ON/OFF
- CAN SAE J1939 compliant digital communications interface for monitoring, control, and configuration capability
- Power can be scaled, up to four power modules can current share for total output power of 16kW
- Up to 96% efficiency

Series	Power	High Side (VDC)	Low Side (VDC)	IP Rating	Cooling
	(W)	Nom	Nom		
400S12.4K0HBC	4,000	350	12	IP67	Liquid
400S24.4K0HBC	4,000	350	24	IP67	Liquid
800S12.4K0HBC	4,000	700	12	IP67	Liquid
800S24.4K0HBC	4,000	700	24	IP67	Liquid



Low Voltage Battery Equalizer

- e-Mobility 12V/24V battery system
- Low Side (LS): 12V input voltage range: 6V to 18V
- High Side (HS): 24V input voltage range: 12V to 35V
- Remote ON/OFF
- Efficiency up to 97%

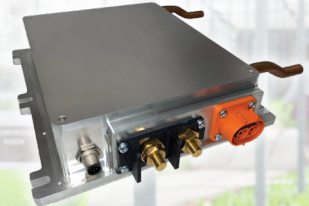
Series	Power	High Side (VDC)	Low Side (VDC)	IP Rating	Cooling
	(W)	Nom	Nom		
24S12.3K0MEQ	3,000	24	12	IP67	Air



DC-DC Converters

High Power Auxiliary Power Module (APM)

- Liquid cooled or fan cooled option
- Efficiency up to 95.6%
- High power density
- CAN 2.0B based controls
- Ruggedized IP6K9K ingress protection
- Excellent thermal performance



Series	Watts	Vin	Vout	Output Current	Case
400S12.3K0HVC-L	3kW	220 - 450	12	250A	267 x 240 x 59.2 mm
400S12.3K0HVC-A	3kW	220 - 450	12	250A	267 x 240 x 70 mm

Chassis Mount Converters

High Power

- Efficiency up to 97%
- Fully protected (otp, ocp, ovp, uvlo)
- No minimum load requirement
- Fixed frequency operation at 400khz
- Only 3.3 lbs
- Input reverse polarity protection
- Low profile, compact package
- Auto recovery
- High reliability



Series	Watts	Vin	Vout	Vin Range	Case
13S28.75MBH	2100	13	28	10 - 16	9.0" x 6.5" x 1.25"
13S28.60MBH	1700	13	28	10 - 16	9.0" x 6.5" x 1.25"
13S28.40MBH	1100	13	28	10 - 16	9.0" x 6.5" x 1.25"

Low Power DC-DC

Series	Watts	Vin	Vout	Vin Range	Case
48S12.20LPE	240	48	12	35-60	4.70" x 2.76" x 1.57"
48S12.20LPC	300	48	12	35-60	4.70" x 2.76" x 1.57"



Low Power Battery Chargers

Series	Watts	Vin	Vout	Vin Range	Case
ACS24.250CEV	300		24	100-264	6.29" x 3.90" x 2.24"
ACS48.250CEV	300		48	100-264	6.29" x 3.90" x 2.24"

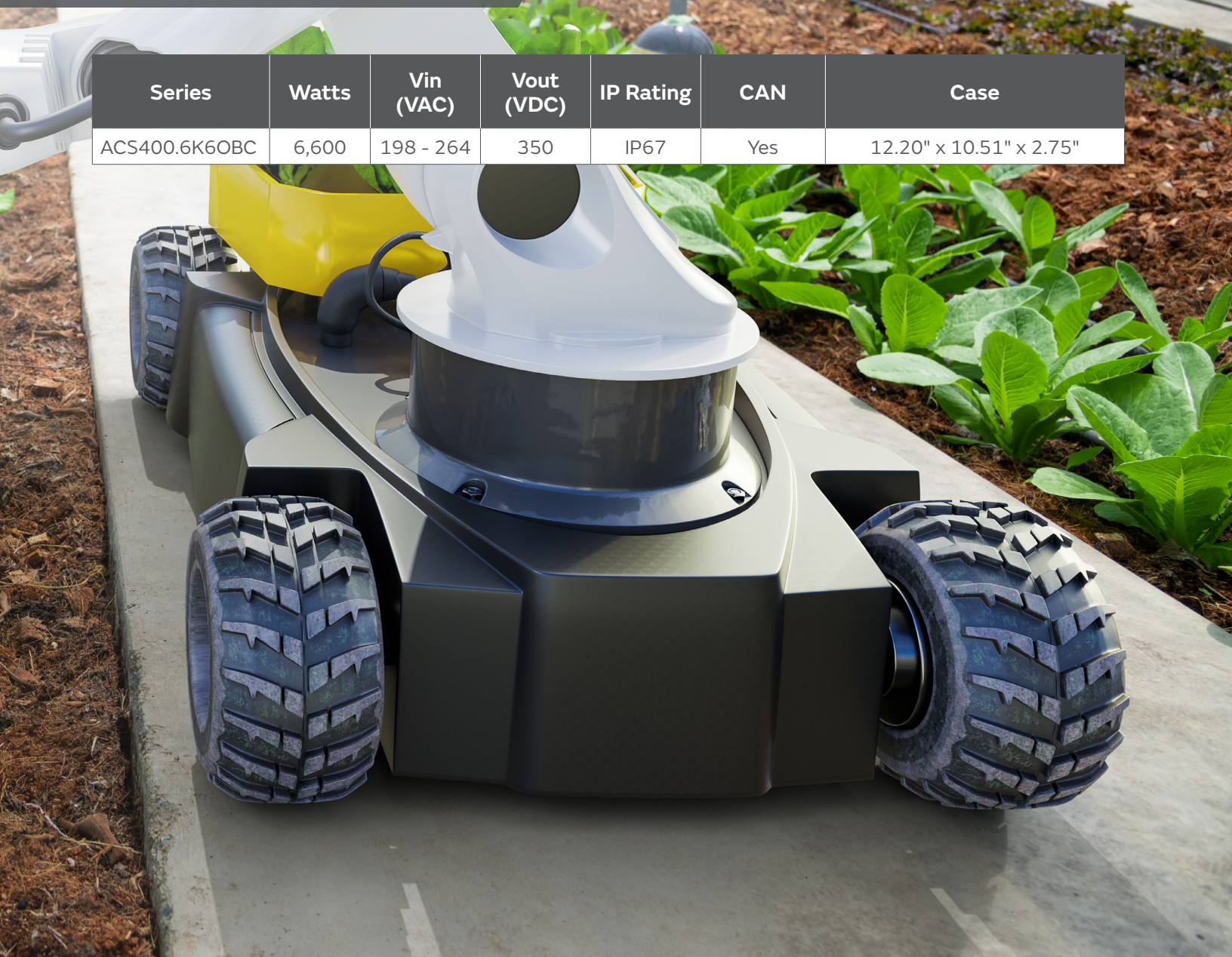


Li-ion Battery Chargers

- Fully enclosed for chassis mounting
- Constant current
- Rugged industrial applications - IP67 rated
- Remote ON/OFF
- Good thermal performance
- No fan applications -40°C (start up) to +70°C
- Flying lead I/P & O/P
- Parallel operation



Series	Watts	Vin (VAC)	Vout (VDC)	IP Rating	CAN	Case
ACS400.6K60BC	6,600	198 - 264	350	IP67	Yes	12.20" x 10.51" x 2.75"



We have what you need. It's a matter of determining your specific requirements and coupling them with the product that will do the job right. With our standards and experience, you won't have to reinvent the wheel. Contact us today to provide a solution for your power needs quickly and cost effectively.



CALEX

Calex Manufacturing Company, Inc.

+1 925-687-4411

800-542-3355

email: sales@calex.com

www.calex.com

follow us on: [in](#) [▶](#) [X](#) [@](#)

a division of **muRata** **Ps**