

SAPA PLACENCIA

Auxiliary Power Units & Electric Machine Systems





28 Vdc Auxiliary Power Units

SAPA low voltage generators and IC engine conversions make the most efficient and power dense auxiliary power units that can be integrated in any combat vehicle. Customized for every application, dimensions can be adapted to space claims as small as 300 mm in height.

Our APUs can now be delivered with attenuation kit providing SPL of 65 dBA at full load.

Auxiliary Power Units

Dimensions (mm)	630 x 510 x 536	1025 x 600 x 300	1191 x 565 x 300	1025 x 600 x 400
Type	28 Vdc 17kW	28 Vdc 7,5kW	28 Vdc 10kW	28 Vdc 17kW
Rated speed (rpm)	3000	3000	3600	3000
Application	6x6 / 8x8 APC	Leopard 2E	Abrams & Bradley	Leopard 2E
				

Key Benefits

01

Significant improvement in battery management (extended life)

02

Improved vehicle availability

03

Reduced vehicle IR & acoustic signature in stand by condition

04

Electric supply to FCS, comm and HVAC

700 Vdc Motor / Generator

This 3 phase PM machine is conceived to work with IC engines as alternator and/or motor. It is the perfect partner for electrical and hybrid vehicles. Its high temperature operating capacity (up to 100°C) reduced volume and through shaft allows an unrivaled spectrum of applications in the electrified vehicles arena.

**75 kW High Temperature Electric
Machine & AC/DC Converter**

Technical Characteristics

Max speed (rpm)	7200
Nominal Torque (Nm)	110
Peak Torque (<60s) (Nm)	300
Nominal Power (kW)	75
Peak Power (<60s) (kW)	165
Peak Efficiency	97%
Dimensions (mm)	200 (L) x 240 (D)
Weight (kg)	38



DC Range (Vdc)	0-850
Max. Current (A)	175
Power @ 700 Vdc (kW)	72
Output frequency (Hz)	< 2000
Switching frequency (Hz)	< 100
Peak Efficiency	Up to 98%
Dimensions (mm)	325 x 305 x 150
Weight (kg)	20



Key Benefits

01

High torque and power density

02

Liquid cooling up to 100°C at nominal power

03

Customized versions available

04

Possibility of integrated resolver

Auxiliary Power Units & Electric Machine System

Applications

