

The comparison between ACS806 and ELD5-400(Z)

The ELD5 series low-voltage servo driver is a new servo system that inherit all features and functions from AC servo, including notch/damping filter, position/velocity/torque control, easy tuning ,more intelligent(Pr mode \ saving controller\self-adaption for different voltage input) , also ELD5 can match different encoder signal .

The main advantage of ELD5 series , compared to ACS806 , is in the table below :

Basic Function:

Type	ACS806	ELD5-400/ELD5-400Z
Rated output power	Up to 400w	
Rated output current	6Amp cont/18Amp peak	10Amp cont/35Amp peak
Control mode	Position Mode <i>only</i>	Position/Velocity/Current mode
Internal velocity mode	×	Yes , up to 7 different speeds can be set directly .
Network	×	RS485
Feedback supported	1000line 2500line encoder with 5V TTL signal.	1000line/2500line/5000P/R./17-bit/23-bit serial encoder
IO function	Limited function	Abundant IO function
Alarm display	No Led display , limited alarm code	Led display for abundant function and alarm code
Analog input	×	Yes , can be used for velocity/torque control

Tuning Function:

Type	ACS806	ELD5-400/ELD5-400Z
Control Algorithm	Only PID included	PID + Feedforward control + MFC +Notch/damplng Filter
Tuning process	Not easy. All three loops tuning need be set manually .	Much easier : ✧ All three loops tuning can be set via 4 parameters only . ✧ Stiffness and inertia ratio set by two parameters ;
Enhanced tuning	×	✧ MFC(Pr000) can be set for better performance. ✧ Three motion mode can be selected easily (Pr002) ;
Compatible for voltage	The PID values aren,t compatible for different voltage input	All PID values are compatible even the setting voltage changes a lot