



## **DS 5630**

### Dips and drops switch

**A powerful electronic switch for fast dips and drops applications.**

The DS 5630 switches the voltage source through to the EUT connection under program-control. The primary input and the auxiliary connection enable two sources to be used. The DC switching capacity of 70V/75A is capable of coping with high power requirements and is ready for the 42V era.

The selectable switching conditions are:  
Output (EUT)

- to primary source
- to auxiliary source
- switched off (open)
- dip and drop from primary to auxiliary source and back again
- to primary source with 2Ω extra impedance (SAE J 1115-11 pulse 2b)

Due to the rapid switching times, the requirements of every standard that calls for drop-outs and voltage jumps in the μs range can be fulfilled by using a battery simulator and an auxiliary source. The DS 5630 also acts as the DC input for the transformer coupled sine wave noise or for magnetic field immunity tests when high field strengths are required.



#### Technical specifications DS 5630

Primary input voltage:	-4V to 70V
Current:	0 to 75A
Voltage drop:	1Vmax @ 75A
Auxiliary input voltage:	0 to 70V
Current:	0 to 75A
Switch time ON:	0.2 to 1.5 $\mu$ s
OFF:	0.5 to 1.5 $\mu$ s (13.5V to 0V with 1k $\Omega$ load)
SAE pulse 2 output impedance:	2 $\Omega$
Overvoltage protection:	75V
Overcurrent protection:	>75A