PROGRAMMABLE SWITCHING D.C. POWER SUPPLY



PSH-Series



The PSH-Series are single output from 360 to 1080W, programmable switching DC power supplies. OVP, OCP and OTP protect the power supply and loads from unexpected conditions. Remote sensing adds an extra level of precision by compensating cable losses between loads. The bright LCD with simultaneous parameter outputs allows effortless operation. Self-test and software calibration features also reduce maintenance overheads. SCPI commands and LabVIEW driver access through the RS-232C or the optional GPIB interface allow remote control and ATE software development capability. Modular architecture, dedicated rear-panel output, and the 19 inch 4U rack mounting option ensure that the PSH-Series is optimized for large systems.

	ATIONS			
OUTPUT		264 (DCLL 10264)	704 (DCLL 10704)	1004 (DCLL 202004)
10V		36A(PSH-1036A)	70A(PSH-1070A)	100A(PSH-10100A)
20V		18A(PSH-2018A)	35A(PSH-2035A)	50A(PSH-2050A)
36V		10A(PSH-3610A)	20A(PSH-3620A)	30A(PSH-3630A)
60V		6A(PSH-6006A)	12A(PSH-6012A)	18A(PSH-6018A)
REGULATI	ON (CV)			(
Load		\leq 0.1%+5mV	≤0.1%+5mV	\leq 0.1%+5mV
Line		\leq 0.05%+5mV	≤0.05%+5mV	\leq 0.05%+5mV
REGULATI	ON (CC)			
Load		\leq 0.2%+5mA	≤0.2%+10mA	\leq 0.2%+15mA
Line		$\leq 0.2\%$ +5mA	≤0.2%+10mA	$\leq 0.2\%$ +15mA
RIPPLE & I	NOISE			
		\leq 10mVrms	\leq 10mVrms	\leq 10mVrms
Voltage (m Voltage (m		≤ 100mVp-p 20Hz~20MHz	≤ 100mVp-p 20Hz~20MHz	\leq 100mVp-p 20Hz~20MH
Current (m		$\leq 0.2\%$	= 0.2%+20mA	$\leq 0.2\%$ +40mA
		- 0.2%	-0.2%+20mA	- 0.2%+40mA
RESOLUTI		1		
Voltage	<u>≤</u> 36V	10mV	10mV	10mV
Comment	>36V	20mV	20mV	20mV
Current	10V	10mA	20mA	30mA
	20V	10mA	10mA	20mA
	36V	10mA	10mA	10mA
DRCCT	60V	10mA	10mA	10mA
	ACCURACY			
Voltage	\leq 36V	\leq 0.05%+25mV	\leq 0.05%+25mV	\leq 0.05%+25mV
-	>36V	\leq 0.05%+50mV	\leq 0.05%+50mV	\leq 0.05%+50mV
Current	10V	\leq 0.2%+30mA	\leq 0.2%+60mA	\leq 0.2%+90mA
	20V	\leq 0.2%+30mA	\leq 0.2%+30mA	\leq 0.2%+60mA
	36V	\leq 0.2%+30mA	\leq 0.2%+30mA	\leq 0.2%+30mA
	60V	\leq 0.2%+30mA	≤ 0.2%+30mA	\leq 0.2%+30mA
READBACH	K (Meter) RES	SOLUTION		
Voltage	(Same as Resolution	Same as Resolution	As Resolution
Current		Same as Resolution	Same as Resolution	As Resolution
READBACH	K (Meter) AC	CURACY		
Voltage		Same as Program Accuracy	Same as Program Accuracy	As Program Accuracy
Current		Same as Program Accuracy	Same as Program Accuracy	As Program Accuracy
READBACK	TEMP. COEFFI	CIENT		
Voltage (25	5 [±] 5℃)	\leq 100ppm/°C	≦100ppm/ °C	≦100ppm/°C
RESPONSE	E (Rise/Fall) 1	ТІМЕ		
Voltage Up	o(10%~90%)	\leq 150mS(\leq 95% rating load)	\leq 150mS(\leq 95% rating load)	\leq 150mS(\leq 95% rating load
	wn(90%~10%)		$\leq 150 \text{mS}(\geq 10\% \text{ rating load})$	≤150mS(≥10% rating load
		tep Load Change From 25%~75%		
RECOVERY		$\leq 2mS$	≤2mS	≤2mS
			_21115	_21115
CV Mode				
CV Mode PROTECTI				× /
CV Mode PROTECTION OVP/OCP/	/OTP	V	V	V
CV Mode PROTECTI OVP/OCP/ Rush Curre	/OTP ent	V V	V V	V V
CV Mode PROTECTI OVP/OCP/ Rush Curre	/OTP	∨ ∨ ROL	V	V
CV Mode PROTECTI OVP/OCP/ Rush Curre OUTPUT O	/OTP ent DN/OFF CONT	V V		
CV Mode PROTECTI OVP/OCP/ Rush Curre OUTPUT O INTERFAC	/OTP ent DN/OFF CONT E	V V ROL V	V	V
CV Mode PROTECTI OVP/OCP/ Rush Curre OUTPUT O INTERFAC Standard :	/OTP ent DN/OFF CONT E RS-232C; Opt	V V ROL V	V	V
CV Mode PROTECTI OVP/OCP/ Rush Curre OUTPUT O INTERFAC Standard : POWER S	/OTP ent DN/OFF CONT E RS-232C; Opt SOURCE	V V ROL V	V	V
CV Mode PROTECTI OVP/OCP/ Rush Curre OUTPUT O INTERFAC Standard : POWER S AC90V~250	/OTP ent DN/OFF CONT E RS-232C; Opt SOURCE 0V, 50/60Hz	V V ROL V ional : GPIB	V	V
CV Mode PROTECTI OVP/OCP/ Rush Curre OUTPUT O INTERFAC Standard : POWER S AC90V~250	/OTP ent DN/OFF CONT E RS-232C; Opt SOURCE	V V ROL V ional : GPIB	V	V
CV Mode PROTECTI OVP/OCP/ Rush Curre OUTPUT O INTERFAC Standard : POWER S AC90V~250	/OTP ent DN/OFF CONT E RS-232C; Opt SOURCE 0V, 50/60Hz	V V ROL V ional : GPIB	V	V
CV Mode PROTECTI OVP/OCP/ Rush Curre OUTPUT O INTERFAC Standard : POWER S AC90V~250	/OTP ent DN/OFF CONT E RS-232C; Opt SOURCE 0V, 50/60Hz	V ROL V ional : GPIB	V	V
CV Mode PROTECTI OVP/OCP/ Rush Curre OUTPUT O INTERFAC Standard : POWER S AC90V~250	/OTP ent DN/OFF CONT E RS-232C; Opt SOURCE 0V, 50/60Hz	✓ ✓	V V 188(W)x142(H)x393(D)mm	V V 268(W)x142(H)x393(D)mm
CV Mode PROTECTI OVP/OCP/ Rush Curre OUTPUT O INTERFAC Standard : POWER S AC90V~250	/OTP ent DN/OFF CONT E RS-232C; Opt SOURCE 0V, 50/60Hz	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ional : GPIB ✓ 108(W)x142(H)x393(D)mm Approx. 3.3kg	V V 188(W)x142(H)x393(D)mm	V V 268(W)x142(H)x393(D)mm
CV Mode PROTECTI OVP/OCP/ Rush Curre OUTPUT O INTERFAC Standard : POWER \$ AC90V-251 DIMENSIC	/OTP ent DN/OFF CONT E RS-232C; Opt SOURCE OV, 50/60Hz DNS & WEIG	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ional : GPIB ✓ 108(W)x142(H)x393(D)mm Approx. 3.3kg	↓ ↓ 188(W)x142(H)x393(D)mm Approx. 6.2kg NFORMATION	↓ ↓ 268(W)x142(H)x393(D)mm Approx. 9.3kg
CV Mode PROTECTI OVP/OCP/ Rush Curre OUTPUT O INTERFAC Standard : POWER S AC90V-250 DIMENSIO	ACTP ent N/OFF CONT E RS-232C; Opt SOURCE OV, 50/60Hz DNS & WEIG	V ROL V ional : GPIB HT 108(W)x142(H)x393(D)mm Approx. 3.3kg ORDERING I	V V 188(W)x142(H)x393(D)mm Approx. 6.2kg NFORMATION PSH-3610A 360W Programmab	V V 268(W)x142(H)x393(D)mm Approx. 9.3kg le Switching D.C. Power Supply
CV Mode PROTECTI OVP/OCP/ Rush Curre OUTPUT O INTERFAC Standard : POWER S AC90V-250 DIMENSIO	ACTP ent IN/OFF CONT IE RS-232C; Opt SOURCE OV, 50/60Hz ONS & WEIG	V ROL ional : GPIB HT 108(W)x142(H)x393(D)mm Approx. 3.3kg ORDERING I umable Switching D.C. Power Supply	V 188(W)x142(H)x393(D)mm Approx. 6.2kg NFORMATION PSH-3610A 360W Programmab PSH-3620A 720W Programmab	V V 268(W)x142(H)x393(D)mm Approx. 9.3kg le Switching D.C. Power Supply le Switching D.C. Power Supply
CV Mode PROTECTI OVP/OCP/ Rush Curre OUTPUT O INTERFAC Standard : POWER S AC90V-25(DIMENSIC DIMENSIC	ACTP ent N/OFF CONT E RS-232C; Opt SOURCE 0V; 50/60Hz DNS & WEIG	V ROL V ional : GPIB HT 108(W)x142(H)x393(D)mm Approx. 3.3kg ORDERING I mable Switching D.C. Power Supply mable Switching D.C. Power Supply	V 188(W)x142(H)x393(D)mm Approx. 6.2kg NFORMATION PSH-3610A 360W Programmab PSH-3620A 720W Programmab y PSH-3630A 1080W Programmal	V 268(W)x142(H)x393(D)mm Approx. 9.3kg le Switching D.C. Power Supply ble Switching D.C. Power Supply
CV Mode PROTECTI OVP/OCP/ Rush Curre OUTPUT O INTERFAC Standard : POWER S AC90V-250 DIMENSIO PSH-1036A PSH-1036A PSH-1036A	ACTP ent DN/OFF CONT E RS-232C; Opt SOURCE 0V, 50/60Hz ONS & WEIG 0NS & WEIG 000W Program 1000W Program 360W Program	V ROL V ional : GPIB BHT 108(W)x142(H)x393(D)mm Approx. 3.3kg ORDERING I Immable Switching D.C. Power Supply mmable Switching D.C. Power Supply mmable Switching D.C. Power Supply	V 188(W)x142(H)x393(D)mm Approx. 6.2kg NFORMATION PSH-3610A 360W Programmab PSH-3620A 720W Programmab PSH-3630A 1080W Programmab PSH-6006A 360W Programmab	V V 268(W)x142(H)x393(D)mrr Approx. 9.3kg le Switching D.C. Power Supply be Switching D.C. Power Supply le Switching D.C. Power Supply
CV Mode PROTECTI OVP/OCP/ Rush Curre OUTPUT O INTERFAC Standard : POWER S AC90V-25(DIMENSIC DIMENSIC PSH-1036A PSH-1036A PSH-1070A PSH-10100A PSH-2035A	(OTP ent N/OFF CONT E RS-232C; Opt SOURCE 0V, 50/60Hz DNS & WEIG 0NS & WEIG 360W Program 1000W Program 360W Program 360W Program 700W Program		V 188(W)x142(H)x393(D)mm Approx. 6.2kg NFORMATION PSH-3610A 360W Programmab PSH-3600A 720W Programmab PSH-6006A 360W Programmab PSH-6012A 720W Programmab	V 268(W)x142(H)x393(D)mm Approx. 9.3kg le Switching D.C. Power Supply le Switching D.C. Power Supply le Switching D.C. Power Supply le Switching D.C. Power Supply le Switching D.C. Power Supply
CV Mode PROTECTI OVP/OCP/ Rush Curre OUTPUT O INTERFAC Standard : POWER S AC90V-25(DIMENSIC DIMENSIC PSH-1036A PSH-1036A PSH-1070A PSH-1070A PSH-2035A PSH-2035A	(OTP ent N/OFF CONT E RS-232C; Opt SOURCE 0V, 50/60Hz DNS & WEIG 0NS & WEIG 360W Program 1000W Program 360W Program 360W Program 700W Program		V 188(W)x142(H)x393(D)mm Approx. 6.2kg NFORMATION PSH-3610A 360W Programmab PSH-3600A 720W Programmab PSH-6006A 360W Programmab PSH-6012A 720W Programmab	V 268(W)x142(H)x393(D)mm Approx. 9.3kg le Switching D.C. Power Supply le Switching D.C. Power Supply le Switching D.C. Power Supply le Switching D.C. Power Supply le Switching D.C. Power Supply
CV Mode PROTECTI OVP/OCP/ Rush Curre OUTPUT O INTERFAC Standard : POWER S AC90V-250 DIMENSIO DIMENSIO PSH-1036A PSH-1036A PSH-1036A PSH-2038A PSH-2038A PSH-2038A PSH-2030A	ACTP ent N/OFF CONT E RS-232C; Opt SOURCE OV, 50/60Hz ONS & WEIG 0V, 50/60Hz ONS & WEIG 0V, 50/60Hz ONS & WEIG 00W Program 1000W Program 1000W Program 1000W Program		V 188(W)x142(H)x393(D)mm Approx. 6.2kg NFORMATION PSH-3610A 360W Programmab PSH-3600A 720W Programmab PSH-6006A 360W Programmab PSH-6012A 720W Programmab	V 268(W)x142(H)x393(D)mm Approx. 9.3kg le Switching D.C. Power Supply le Switching D.C. Power Supply le Switching D.C. Power Supply le Switching D.C. Power Supply le Switching D.C. Power Supply
CV Mode PROTECTI OVP/OCP/ Rush Curre OUTPUT O INTERFAC Standard : POWER S AC90V-250 DIMENSIO DIMENSIO DIMENSIO PSH-1036A PSH-1036A PSH-1036A PSH-2035A PSH-2035A PSH-2035A ACCESSOF User manua	(OTP ent N/OFF CONT E RS-232C; Opt SOURCE 0V, 50/60Hz DNS & WEIG 0NS & WEIG 360W Program 1000W Program 360W Program 360W Program 700W Program		V 188(W)x142(H)x393(D)mm Approx. 6.2kg NFORMATION PSH-3610A 360W Programmab PSH-3600A 720W Programmab PSH-6006A 360W Programmab PSH-6012A 720W Programmab	V 268(W)x142(H)x393(D)mm Approx. 9.3kg le Switching D.C. Power Supply le Switching D.C. Power Supply le Switching D.C. Power Supply le Switching D.C. Power Supply le Switching D.C. Power Supply
CV Mode PROTECTI OVP/OCP/ Rush Curre OUTPUT O INTERFAC Standard : POWER S AC90V-250 DIMENSIO PSH-1000A PSH-10100A PSH-2035A PSH-2035A PSH-2035A PSH-2035A PSH-2035A PSH-2035A PSH-2035A PSH-2035A PSH-2035A	ACTP ent IN/OFF CONT E RS-232C; Opt SOURCE 0V, 50/60Hz DNS & WEIG A 360W Program 1000W Program 100 W Program		V 188(W)x142(H)x393(D)mm Approx. 6.2kg NFORMATION PSH-3610A 360W Programmab PSH-3600A 720W Programmab PSH-6006A 360W Programmab PSH-6012A 720W Programmab	V 268(W)x142(H)x393(D)mm Approx. 9.3kg le Switching D.C. Power Supply le Switching D.C. Power Supply le Switching D.C. Power Supply le Switching D.C. Power Supply le Switching D.C. Power Supply
CV Mode PROTECTI OVP/OCP/ Rush Curre OUTPUT O INTERFAC Standard : POWER S AC90V-250 DIMENSIO DIMENSIO PSH-1036A PSH-2035A PSH-2035A PSH-2035A PSH-2035A PSH-2035A OPSH-2035A OPSH-2035A PSH-2035A OPSH	ACTP ent N/OFF CONT E RS-232C; Opt SOURCE 0V, 50/60Hz DNS & WEIG 0NS & WEIG 0000 Program 10000 Program		V 188(W)x142(H)x393(D)mm Approx. 6.2kg NFORMATION PSH-3610A 360W Programmab PSH-3600A 720W Programmab PSH-6006A 360W Programmab PSH-6012A 720W Programmab	V 268(W)x142(H)x393(D)mm Approx. 9.3kg le Switching D.C. Power Supply le Switching D.C. Power Supply le Switching D.C. Power Supply le Switching D.C. Power Supply le Switching D.C. Power Supply
CV Mode PROTECTI OVP/OCP/ Rush Curre OUTPUT O INTERFAC Standard : POWER S AC90V-250 DIMENSIO DIMENSIO PSH-1036A PSH-1036A PSH-1070A PSH-2035A PSH-2035A PSH-2035A PSH-2035A OPSH-2035A PSH	ACTP ent N/OFF CONT E RS-232C; Opt SOURCE OV, 50/60Hz DNS & WEIG ONS & WEIG A 360W Program A 360W Program A 1000W Program A 10		V 188(W)x142(H)x393(D)mm Approx. 6.2kg NFORMATION PSH-3610A 360W Programmab PSH-3600A 720W Programmab PSH-6006A 360W Programmab PSH-6012A 720W Programmab	V 268(W)x142(H)x393(D)mm Approx. 9.3kg le Switching D.C. Power Suppl le Switching D.C. Power Suppl le Switching D.C. Power Supply le Switching D.C. Power Supply le Switching D.C. Power Supply
CV Mode PROTECTI OVP/OCP/ Rush Curre OUTPUT O INTERFAC Standard : POWER S AC90V-250 DIMENSIO DIMENSIO DIMENSIO PSH-1036A PSH-1036A PSH-1070A PSH-10100A PSH-2035A PSH-	ACTP ent N/OFF CONT E RS-232C; Opt SOURCE OV, 50/60Hz ONS & WEIG ONS & WEIG A 360W Program 700W Program 700W Program 700W Program 1000W Progra		V 188 (W)x142(H)x393(D)mm Approx. 6.2kg NFORMATION PSH-3610A 360W Programmab PSH-3620A 720W Programmab PSH-601A 360W Programmab PSH-6012A 720W Programmab y PSH-6018A 1080W Programmab	V 268(W)x142(H)x393(D)mm Approx. 9.3kg le Switching D.C. Power Supply le Switching D.C. Power Supply le Switching D.C. Power Supply le Switching D.C. Power Supply le Switching D.C. Power Supply
CV Mode PROTECTI OVP/OCP/ Rush Curre OUTPUT O INTERFAC Standard : POWER S AC90V-250 DIMENSIO DIMENSIO DIMENSIO DIMENSIO PSH-1036A PSH-1036A PSH-1070A PSH-2035A PSH-2050A ACCESSOF User manua OPTION/ GRA-403 GTL-232	ACTP ent N/OFF CONT E RS-232C; Opt SOURCE OV, 50/60Hz ONS & WEIG 0V, 50/60Hz 0V, 5		V 188 (W)x142(H)x393(D)mm Approx. 6.2kg NFORMATION PSH-3610A 360W Programmab PSH-3620A 720W Programmab PSH-601A 360W Programmab PSH-6012A 720W Programmab y PSH-6018A 1080W Programmab	V 268(W)x142(H)x393(D)mm Approx. 9.3kg le Switching D.C. Power Supply le Switching D.C. Power Supply le Switching D.C. Power Supply le Switching D.C. Power Supply le Switching D.C. Power Supply
CV Mode PROTECTI OVP/OCP/ Rush Curre OUTPUT O INTERFAC Standard : POWER S AC90V-250 DIMENSIO DIMENSIO DIMENSIO DIMENSIO DIMENSIO PSH-1010A PSH-1010A PSH-2015A PSH-2050A ACCESSOF User manua OPTION/ GRA-403 GTL-232	ACTP ent N/OFF CONT E RS-232C; Opt SOURCE OV, 50/60Hz ONS & WEIG ONS & WEIG A 360W Program 700W Program 700W Program 700W Program 1000W Progra		V 188 (W)x142(H)x393(D)mm Approx. 6.2kg NFORMATION PSH-3610A 360W Programmab PSH-3620A 720W Programmab PSH-601A 360W Programmab PSH-6012A 720W Programmab y PSH-6018A 1080W Programmab	V V 268(W)x142(H)x393(D)mm Approx. 9.3kg le Switching D.C. Power Supply le Switching D.C. Power Supply le Switching D.C. Power Supply le Switching D.C. Power Supply

FEATURES

- * Wide Input Voltage Range and High Power Factor (P.F)
- * High Efficiency and High Power Density
- * Constant Voltage and Constant Current Operation
- * Over Voltage , Over Current and Over Temperature Protection
- * Self-Test and Software Calibration
- * Output ON/OFF Control
- * Low Ripple and Noise
- * LCD Display
- * Built-in Buzzer Alarm
- * Standard Interface : RS-232C
- * Optional Interface : GPIB (IEEE-488.2)
- * LabVIEW Driver

Front Panel



Rear Panel



 PC Software Driver
 PC Software including Data Log ; Remote Control Software Labview Driver

 NOTE : When Opt.01 GPIB interface is ordered, the standard interface RS-232C will be deleted.

D23

Available from



CALTEST Instruments Ltd Specialists in power and instrumentation

Power sources and test instrumentation solutions

Caltest have been providing power sources and test instrumentation solutions for over 20 years and are proud to represent a number of industry leading manufacturers.

As well as supplying world class power sources and test instrumentation Caltest also has a service centre and UKAS calibration laboratory.

NEED HELP? CALL US: 01483 302 700

or visit our website for more details

Caltest Instruments Ltd 4 Riverside Business Centre Walnut Tree Close Guildford Surrey GU1 4UG United Kingdom Tel: +44 (0) 1483 302 700 Fax: +44 (0) 1483 300 562 sales@caltest.co.uk www.caltest.co.uk

Sales • Rentals • Service • UKAS Calibration

