



PULSE WA SPECIFICATIONS

- > Using this technology, the electrolyte is mixed through the use of current pulses during the gassing phase of the charge cycle. This mixing is necessary to avoid layering (stratification) of the electrolyte that can lower the efficiency of the battery and reduce available capacity. These current pulses generate gassing phases that mix the electrolyte and prevent the formation of acid layers. A key advantage of this technology is electrolyte circulation without the need or added cost of air pumps.
- > By the use of the Pulse characteristic the charging factor is reduced (approx 1.08) this leads to an actual reduction in transformer output required to charge a specific capacity within a given time. This offers a commercial advantage of using a smaller charger output, as well as the operational benefits of offering reduced cabling/fusing requirements for any given voltage- output combination.

BENEFITS OF PULSE CHARGING TECHNOLOGY

- > Reduced water consumption due to low temperature rise.
- > Reduced battery maintenance and improved battery lifetime.
- > The low charge factor leads to a significant reduction of costs, because less energy is consumed for each charge.

TECHNICAL SPECIFICATIONS

- > Available as 3Ph 400/230V and 1Ph 230V Input Voltage, 50-60 Hz
- > WpWa charging mode
- > Superb battery care. It compensates for differing degrees of discharge making it particularly suited to operations with widely varying vehicle duty cycles
- > Engineered for one or two shift operations
- > Fail safe design
- > Quality built for years of trouble-free service
- > Lower charge factor (1.08)
- > Start delay : diagnostics check for correct battery and state of battery
- > Selectable delayed start to take advantage of off-peak electricity
- > Charging pattern based on charge factor calculation
- > Equalising and Maintenance charge
- > Pre-Charging mode; monitoring system ensuring prevention of overcharging
- > Facility to adjust :
 - charge factor
 - gassing voltage
 - start delay
 - equalisation charge duration
- > Double security timer.
- > Multi-Voltage controller (24-80V)
- > Alpha/Numeric display : key information including total voltage, charge current, amps returned, accumulated charge time and diagnostics
- > Thermal cut-out
- > Led's indicating charge in progress
- > 96V and 120V available on request
- > All stages are monitored and covered by security systems
- > A high reliability design with easy access for adjustment or repair



HOPPECKE

POWER FROM INNOVATION

TRAK BASIC

Type	Battery Voltage (V)	Nominal Current (A)	Recharge Time/ Battery Capacity C ₅ (Ah)			Input Voltage (V _{AC})	Cabinet	Weight (kg)
			6,5÷7,5h	7,5÷8,5h	8,5÷12h			
TRAK BASIC 3ph 24/60	24	60	275-330	330-380	380-540	3x400	A2	48
TRAK BASIC 3ph 24/80	24	80	370-440	440-500	500-720	3x400	A2	53
TRAK BASIC 3ph 24/100	24	100	460-550	550-630	630-900	3x400	A2	56
TRAK BASIC 3ph 24/120	24	120	555-660	660-750	750-1080	3x400	A2	61
TRAK BASIC 3ph 24/140	24	140	645-770	770-880	880-1260	3x400	A2	65
TRAK BASIC 3ph 24/160	24	160	740-880	880-1010	1010-1440	3x400	A2	67
TRAK BASIC 3ph 24/180	24	180	830-990	990-1130	1130-1620	3x400	A2	71
TRAK BASIC 3ph 24/200	24	200	925-1100	1100-1260	1260-1800	3x400	A2	78
TRAK BASIC 3ph 24/220	24	220	1015-1210	1210-1385	1385-1980	3x400	A2	85
TRAK BASIC 3ph 36/80	36	80	370-440	440-500	500-720	3x400	A2	60
TRAK BASIC 3ph 36/100	36	100	460-550	550-630	630-900	3x400	A2	63
TRAK BASIC 3ph 36/120	36	120	555-660	660-750	750-1080	3x400	A2	67
TRAK BASIC 3ph 36/140	36	140	645-770	770-880	880-1260	3x400	A2	70
TRAK BASIC 3ph 36/160	36	160	740-880	880-1010	1010-1440	3x400	A2	74
TRAK BASIC 3ph 36/180	36	180	830-990	990-1130	1135-1620	3x400	A2	78
TRAK BASIC 3ph 48/80	48	80	370-440	440-500	500-720	3x400	A2	68
TRAK BASIC 3ph 48/100	48	100	460-550	550-630	630-900	3x400	A2	71
TRAK BASIC 3ph 48/120	48	120	555-660	660-750	750-1080	3x400	A2	76
TRAK BASIC 3ph 48/140	48	140	645-770	770-880	880-1260	3x400	A2	82
TRAK BASIC 3ph 48/160	48	160	740-880	880-1010	1010-1440	3x400	A2	87
TRAK BASIC 3ph 48/180	48	180	830-990	990-1130	1135-1620	3x400	A2	93
TRAK BASIC 3ph 48/200	48	200	925-1100	1100-1260	1260-1800	3x400	A2	101
TRAK BASIC 3ph 48/220	48	220	1015-1210	1210-1385	1385-1980	3x400	A1	116
TRAK BASIC 3ph 72/80	72	80	370-440	440-500	500-720	3x400	A2	86
TRAK BASIC 3ph 72/100	72	100	460-550	550-630	630-900	3x400	A2	90
TRAK BASIC 3ph 72/120	72	120	555-660	660-750	750-1080	3x400	A2	93
TRAK BASIC 3ph 72/140	72	140	645-770	770-880	880-1260	3x400	A1	100
TRAK BASIC 3ph 72/160	72	160	740-880	880-1010	1010-1440	3x400	A1	106
TRAK BASIC 3ph 72/180	72	180	830-990	990-1130	1130-1620	3x400	B2	135
TRAK BASIC 3ph 72/200	72	200	925-1100	1100-1260	1260-1800	3x400	B2	138
TRAK BASIC 3ph 80/80	80	80	370-440	440-500	500-720	3x400	A2	80
TRAK BASIC 3ph 80/100	80	100	460-550	550-630	630-900	3x400	A2	84
TRAK BASIC 3ph 80/120	80	120	555-660	660-750	750-1080	3x400	A2	91
TRAK BASIC 3ph 80/140	80	140	645-770	770-880	880-1260	3x400	A1	97
TRAK BASIC 3ph 80/160	80	160	740-880	880-1010	1010-1440	3x400	A1	107
TRAK BASIC 3ph 80/180	80	180	830-990	990-1130	1130-1620	3x400	B2	143
TRAK BASIC 3ph 80/200	80	200	925-1100	1100-1260	1260-1800	3x400	B2	146

SAFETY DEVICES AND PROTECTION
 TRAK BASIC is protected against faults or incorrect battery connection. Overall charge control is achieved by well-proven security timers based on a bulk timer causing the charger to shut down and an overall timer.

The unit incorporates a self-diagnostic system in the event of the following:

- > Overcharge detection (Pre-Charging mode)
- > Overdischarged detection (Pre-Charging mode)
- > AC fault
- > Battery disconnect shutdown

KEYPAD

- DISPLAY
- Battery voltage
 - Charge current
 - Accumulated charge time
 - Amps returned
 - Charge factor
 - Diagnostics



DISPLAY



Scroll button



Stop/Start button



Battery connected / Charge ON



Charge complete/ Equalising / Maintenance



AC Fault



Error

type	dimensions in mm		
	A	B	C
A1	900	500	400
A2	760	500	400
B2	900	600	500

